



**MINING & DRILLING PRODUCTS**

# TABLE OF CONTENTS

<b>Introduction</b> .....	4
<b>Corporate Identity</b> .....	6
<b>Products and Services</b> .....	9
<b>Geotechnical &amp; Environmental Products</b> .....	10
Drilling Fluids & Additives .....	11
Core Retrieval Tools .....	24
Diamond Tools .....	28
Drill Rods, Adaptor Subs & Casing .....	30
Sand and Gravel .....	31
PVC Environmental Pipe .....	32
Accessories .....	33
<b>Geothermal Products</b> .....	36
Drilling Fluids & Additives .....	37
Accessories .....	46
<b>Horizontal Directional Drilling</b> .....	48
Drilling Fluids & Additives .....	49
<b>Infrastructure Products</b> .....	65
Drilling Fluids & Additives .....	66
Accessories .....	67
<b>Jet Grouting Products</b> .....	69
Drilling Fluids & Additives .....	70
<b>Mineral Exploration Products</b> .....	77
Drilling Fluids & Additives .....	78
Core Retrieval Tools .....	90
Diamond Tools .....	92
Drill Rods, Adaptors Subs & Casing .....	94
Inertial Sensing .....	95
Accessories .....	98

<b>Mineral Processing Products</b> .....	99
Drilling Fluids Additives .....	100
<b>Oil Sands Coring Products</b> .....	101
Drilling Fluids & Additives .....	102
Sand & Gravel .....	115
Core Retrieval Tools .....	116
Accessories .....	118
<b>Tunneling Products</b> .....	120
Drilling Fluids & Additives .....	121
<b>Water Well Products</b> .....	128
Drilling Fluids & Additives .....	129
Sand and Gravel .....	144
Casing & Drop Pipe .....	145
Screens, Adapters & Weld Rings .....	146
Mud Pump Parts .....	147
Accessories .....	148
<b>Universal Accessories</b> .....	150
Accessories .....	151

# DOWN TO EARTH BUSINESS



At Di-Corp, we have proudly developed a reputation for exceeding customer expectations for over 50 years.

We build relationships that focus not only on Down To Earth customer service, but the capabilities and expertise of our staff.

As a leading manufacturer and distributor of specialty chemicals, parts and accessories serving the Energy, Mining, and Drilling industries, we can focus on all aspects of your project.

We know that all relationships require integrity. We believe that having dedicated staff providing personalized service along with our focused product lines will lead to your success.

We approach partnerships with current market knowledge, superior problem solving capability and technical support backed by our Research & Development teams along with International distribution capabilities.

Our geographic footprint, stretching coast-to-coast in Canada, the United States and around the world drives value for our customers and makes us your preferred supplier.

**Our products and services include:**

- Customized drilling fluid packages
- Product evaluation and testing
- Drilling hardware & accessories
- Drill rod and casing
- CNC capabilities in 1" - 24"
- Custom steel products

**We serve customers in the following industries:**

- Geotechnical & Environmental
- Geothermal
- Horizontal Directional Drilling
- Infrastructure
- Jet Grouting
- Mineral Exploration
- Mineral Processing
- Oil Sands Coring
- Tunneling
- Water Well

**Our products are also used in these projects:**

- Slurry Wall
- Jet Injection Grouting
- Civil Construction
- Trench Plugs
- Tunneling

Our vast experience across every drilling discipline allows us to be ready to support your business in any challenge.

# CORPORATE IDENTITY

## Customer Service

At Di-Corp, we take pride in our Customer Service; to guarantee your satisfaction, our team of dedicated Customer Representatives will work with you to satisfy all of your needs. In the past, we have extended our activities to new locations to accommodate our customers and will do it again where necessary. We want to become a team and grow with you.

## Warranty of Product

As the manufacturer of our own products, we stand 100% behind our products and will address any issues or concerns you may have. Our Customer Service Team will be at your disposal to ensure your satisfaction at all times.

Our growth is the result of our commitment to developing high quality products. In numerous circumstances, we have worked with our customers to ensure they are satisfied and productive both in the field and in the office.

## Research & Development

To ensure constant improvement and introduction of innovative products that help you stay ahead in the market, Di-Corp has invested in a fully functional Research & Development laboratory with Ph.D. Chemists, as well as a team of engineers with numerous years of experience, and a state-of-the-art design / technical center.

Di-Corp's Research and Development team includes a Ph.D. Chemist, two scientists and one laboratory technician. The team is exceptionally well-rounded with individuals having backgrounds in chemistry, biology and geology.

The laboratory is equipped to conduct product development in areas of drilling, stimulation and cementing with an emphasis on minimizing environmental impact.

The extent and sophistication of instrumentation and in-house expertise allows Di-Corp to handle other research projects outside of our main areas of focus as well. Where there is potential for improvement in industry, our team is up to the challenge.



## Responsible Distribution

Di-Corp is proud to operate in accordance to the Code of Practice of Responsible Distribution®.

Responsible Distribution® is a responsible management concept developed by the Canadian Association of Chemical Distributors (CACD). Compliance with Responsible Distribution® is a condition of membership in the CACD and is verified by regular independent third party audits by an external auditor.

The elements of Responsible Distribution® include:

- Occupational Health & Safety
- Warehousing
- Bulk Handling
- Repackaging & Labeling
- Transportation
- Emergency Response
- Community Awareness
- Waste Management
- Communication with All Publics
- Self-Assessment and Audit

**“We conduct annual safety reviews across the company.”**

## Health & Safety

Di-Corp is committed to providing a safe and healthy workplace for our employees and visitors. To this end we have joined with the Workers Compensation Board in Alberta in the Partners in Injury Reduction (PIR) Program and have implemented a Health and Safety Program.

Our Health and Safety Program was developed to meet the requirements of a COR (Certificate of Recognition) in the province of Alberta. Di-Corp’s conformance with this standard has been confirmed by two consecutive independent audits.

We are compliant with the Ontario Occupational Health and Safety Act with respect to certifying our staff and supervisors through the Ministry of Labour training.

This reiterates our commitment to:

- Health & Safety
- Workplace Violence & Harassment
- Disability Management (introduced in partnership with the AB WCB)
- Emergency Response
- Injury Reporting
- WSIB processes
- MSDS locations



## Quality Management

Quality Management mandates the execution of quality activities at every step of the production process. Our QA/QC process starts with certificates of authenticity for inbound raw materials, then all manufacturing runs go through batch testing and we have field service ready to support application opportunities or problems.

Final products must pass our laboratory quality controls with samples and fabrication records retained for at least 12 months to back up our customer service commitment and ability. At Di-Corp, we work with our customers to provide quality products and can tailor our quality program to meet specific customer needs.

At Di-Corp, we are committed to the success of your project and the safety of everyone involved in the manufacturing, logistics and use of our products. To give you confidence that our products will meet these aspirations, we have committed to several international and industry groups to quantify and certify our efforts.

Di-Corp operations in Western Canada have a long history of operating according to our Quality Policy. This gives our customers and suppliers the confidence that our company has in place a set of policies and procedures that assure Quality

service for each and every transaction. And, when our products or services are not up to standard, the Quality procedures provide a recognized process to identify, correct and track such instances.

As Di-Corp continues to grow into new locations and through strategic acquisitions, our integration plans include a transition onto the Di-Corp Quality Policy via ISO certification within the first two years of purchase.

The following Di-Corp locations operate in accordance to a Quality Policy registered to the ISO 9001:2008 Standard:

- **Drilling Fluids Manufacturing**  
8750 - 53rd Avenue, Edmonton, Alberta
- **Drilling Fluids Laboratory**  
Unit 2, 4816 35B St SE, Calgary, Alberta
- **Drilling Fluids Sales**  
#900 - 800 6th Avenue SW, Calgary, Alberta
- **Alberta Distribution**  
507 - 14th Avenue, Nisku, Alberta



Serving mining industries around the world, we proudly manufacture and distribute chemicals including drilling fluids and cement additives, as well as rods, casing, diamond bits, core retrieval equipment and various other small and large accessories. Sourcing the best and building it better has been in our blood for 3 generations of family ownership at Di-Corp and we stand behind what we sell.

## Mining & Drilling Products

Mining & Drilling Products include rods, casing, diamond bits, core retrieval equipment, PVC casing, steel casing, drive shoes, screens, plugs, reaming shells, etc. and are used in the horizontal directional drilling, water well drilling, environmental and geotechnical, construction, geothermal as well as oil sands coring markets. We supply drilling fluids, sealants, hardware, casing, and virtually all of the consumables that go in the ground.

## Cementing & Stimulation

From microspheres to fluid loss additives, our products boast the features to help you cement your world. We specialize in products and services for oil and gas well servicing companies, as well as general industrial applications. Oil and gas well services involve well cementing, well acidizing and fracturing, wireline operations, as well as coil tubing operations.

## Drilling Fluids

We're not only a producer and distributor of quality drilling fluid products, but also experts in our field. We understand the products you use and how you use them; we know that having the right products when and where you need them makes a huge difference in your success.

Providing our customers with excellent mud solutions, we offer an extensive suite of chemicals and equipment including:

- Stimulation chemicals
- Cement and cement additives
- Lost Circulation Materials
- Specialty Additives
- Lubricants
- Testing Equipment





## GEOTECHNICAL & ENVIRONMENTAL PRODUCTS

Di-Corp offers supplies and support of all drilling methods including but not limited to hollow stem augers, solid flight augers, mud rotary, air rotary, wireline coring, direct push, and sonic drilling.

## BENTONITE PRODUCTS



### Extra High Yield Bentonite

**Extra High Yield Bentonite** has a higher performance formula that makes it very effective. This premium grade beneficiated Wyoming Bentonite is designed for use in **mineral exploration, water well** and **directional drilling** operations.



It is an efficient viscosifier that performs well in a variety of water qualities. It successfully reduces application rates, and mixes easily / quickly. **Extra High Yield Bentonite** is listed with the National Sanitation Foundation for use in potable water well construction. It is a 220-235 bbl yield product.



### Sea Mud

**Sea Mud** is a hydrous magnesium silicate (sepiolite), which meets the specifications as set down in the API Standards Specification 13A, Sec. 4.

**Sea Mud** is used in water based systems where salinity is too high for regular bentonite to yield.

## CEMENTS & GROUTS



### Enviroplug Tablets

**Enviroplug Tablets (Coated & Uncoated)** are manufactured for use in **piezometer holes, monitor wells** and **other sealing and plugging applications**.

**Enviroplug Tablets** swell in water to more than 10 times their original volume.

**Coated EnviroPlug Tablets** make a high density, low permeability seal between sand packs and high solids bentonite grouts, and isolate screen sections in **multi-completion wells**.

## CEMENTS & GROUTS



### Enviroplug

Enviroplug Medium & Coarse are pure Wyoming Bentonites, designed for use as sealants for **hole abandonment, casing seals** or **any vertical seal to prevent water movement** up or down a bore hole.



When absorbing water, it swells to fill voids, exerting pressure against all surfaces to create a flexible low permeability seal.

Since **Enviroplug** is introduced in a dry state, shrinkage cannot occur and there is a reserve expansion capacity. Generally hydration takes 1 to 2 hours.



### Enviroplug No. 8, 16 & 20

Enviroplug No. 8, 16 and 20 are high-swelling Wyoming Bentonites in granular form.

The unique molecular structure allows them to **absorb five times their weight of water** and **swell to a volume of 12 to 16 times their dry bulk**, making it an ideal well sealant.

Applied dry or in a pumpable slurry, the fine granules expand against casings and formations to create a very low permeability flexible grout seal.



### Enviroplug Grout

Enviroplug Grout is a patented formula bentonite product designed to be used as a **water well grouting fluid, drill hole abandonment fluid, grout for geotechnical monitoring wells after casing placement**, and **other geotechnical construction applications** requiring non-destructible sub-grade seals.



Once in place, **Enviroplug Grout** begins to set and assumes a caulk-like consistency that contacts formations to establish a low permeability seal.

## CEMENTS & GROUTS



### Grout-Well & Grout-Well DF

Grout-Well and Grout-Well DF are one step bentonite grouting materials designed to **achieve low permeability seals in water wells, monitor wells, geotechnical borings, and heat pump holes.**



Grout-Well and Grout-Well DF achieve a range of solids contents, 17% to 20% solids by weight.

Grout-Well DF's granular nature reduces dusty conditions during mixing operations.



### Portland Cement

Portland Cement is a high quality, cost-effective basic cement used in **Mineral Exploration, Geotechnical & Environmental, HDD, Oil Sands Coring** and **Water Well** drilling applications.

Portland Cement meets or exceeds all applicable chemical and physical requirements of ASTM C 150 and CSA A3000-03 (formerly A5-98).

Portland Cement can be used where early strength is required as well as in applications requiring moderately low levels of heat generation during the hydration process.

## GENERAL CHEMICALS



### pH Up Soda Ash

Sodium Carbonate anhydrous commonly known as Soda Ash, is a chemical compound used widely in the drilling industry as a water based mud conditioner and contaminant treatment additive.

Earth Pro pH Up Soda Ash is used to precipitate calcium in make up water, which **softens the water and elevates the water's pH level** prior to mixing mud additives. This is desirable since bentonite and some polymers provide better yield in soft, slightly alkaline water.

## GENERAL CHEMICALS



### Calcium Chloride 94-97%

**Calcium Chloride (94-97%)** is a basic manufactured salt, which is hygroscopic and highly soluble in water.

**Calcium Chloride (94-97%)** has a wide variety of uses:

- Freeze point suppression for water
- Material for increasing density
- Ice melter
- Dust controller



### pH Down Citric

**Earth Pro pH Down Citric** can be added to any water based system where it is desired to lower the pH.

Regional disposal regulations sometimes mandate that the fluid being disposed of must be at a certain pH. This product works to **adjust pH levels**.



### Calcium Nitrate

**Calcium Nitrate** is a readily soluble source of calcium that can be utilized as a **coagulant in a clear water drilling system**.

In certain systems and at certain concentrations this product can also function as a clay and shale inhibitor.

## GENERAL CHEMICALS



### Sodium Bicarbonate

**Sodium Bicarbonate** is commonly known as Bi-Carb, Baking Soda or Bicarbonate of Soda.

**Sodium Bicarbonate** is most commonly used for **treating cement contamination** by precipitating the calcium as calcium carbonate and reducing the pH.



### Chem Clean Green

**Earth Pro Chem Clean Green** is the preferred **cleaner for grease and grime**.

This concentrated, hard-working degreaser goes to work right away, emulsifying and deodorizing. Its grease-fighting solvents and emulsifiers work great on heavy-duty cleaning tasks. It can also be diluted for light-duty cleaning tasks.

- Removes oil and grease in many cleaning applications
- Biodegradable and cost-effective
- Contains no petroleum distillates



# DRILLING FLUIDS & ADDITIVES

## GREASES, LUBRICANTS & COMPOUNDS



### Nikal Thread Compound

**Nikal Thread Lube** is a premium quality anti-seize and gasket compound for use in extreme temperatures and hostile environments.

**Nikal Thread Lube** contains pure nickel flake and a nearly inert dispersing solid in a high quality aluminum complex base grease which provides **unsurpassed protection from rust** by water penetration or water wash off.

### Eco-Safe

**Eco-Safe** nonmetallic thread compound is a premium quality product containing carbon based fibers and additives and other natural extreme pressure and anti-wear additives.

These are blended into a high temperature calcium complex base grease. This new base grease offers the additional advantage of **superior adhesion to wet steel surfaces, resistance to water wash-off, and resistance to most drilling muds**. It is especially effective for invert or high-pH muds.

### Kopr-Kote

**Kopr-Kote** Drill Collar Compound and Tool Joint Compound is an unleaded, premium quality compound containing copper flake, graphite, rust and corrosion inhibitors, antioxidants, and other natural extreme pressure and anti-wear additives.

**Kopr-Kote** provides positive protection for **rotary shouldered connections under severe drilling conditions** where the probability of downhole make-up is anticipated. **Kopr-Kote** prevents high stress levels which shorten the useful life of drill string connections.

### Well-Guard

**Well-Guard** is a high performance thread compound specifically designed for critical monitor well and other environmentally sensitive drilling applications requiring the use of a petroleum hydrocarbon-free product.

**Well-Guard** is formulated from a synergistic blend of synthetic fluids and non metallic, inorganic, EPO and anti wear additives. It provides maximum **protection against galling, seizing, and damage to threads** while maintaining monitor well integrity.

### Jet-Lube 21

**Jet-Lube 21**, a double duty tool joint compound, has been formulated to provide a superior level of performance for today's oilfield market. Its lead-free formulation contains copper flake as the only metallic component, and is fortified by a unique blend of natural, inorganic extreme pressure and anti-wear additives.

Truly a **double duty tool joint compound**, it can be used throughout the entire drill string - 'from the swivel to the bit' - on tool joints, drill collars, and all subsurface tools in medium drilling conditions to depths of 10,000 feet.

## GREASES, LUBRICANTS & COMPOUNDS



### Thread Compound

**Earth Pro Thread Compound** is factory coated on the box and pin ends of every Drillers Edge Rod and Casing. It's then protected with biodegradable plastic end caps to ensure it remains in place until used on the first make and break of the joint.

- Less friction for reduced galling
- Lowers torque requirements - proper makeup is achieved quickly with minimum torque
- Performs as an excellent sealant at pressures up to 20,000 psi
- Environmentally friendly



### TurboCut

**Earth Pro TurboCut** is a liquid lubricant specifically designed to be added directly to water based systems. No tripping to grease and re-grease rods.

Provides **constant lubrication** for rods and down hole tools to extend life, decrease torque and increase rate of penetration even when used in small concentrations.

### Linseed Soap

**Linseed Soap** is a **lubricating grease** made from a mixture of linseed oil, fatty soaps and surfactants. It is a semi-solid paste, brown in color.

**Linseed Soap** can be swabbed inside inner tubes, added to drill fluid through a suction hose applicator or flushed into holding tanks with a water spray. Immediate results will occur by increased core recovery and increased bit footage.

### Bio Bear Rod Grease

**Earth Pro Bio Bear Rod Grease** is a blend of naturally sourced oil and non-toxic surfactants. It can be used to lubricate the outside of drill rods or as grease for slides on rod handlers.

**Earth Pro Bio Bear Rod Grease** can be used as an **environmentally friendly (biodegradable) alternative to heavy metal mineral oil greases** which are not environmentally friendly. No heavy metals to contaminate core samples.

# DRILLING FLUIDS & ADDITIVES

## LOST CIRCULATION MATERIALS



### Prima-Seal

**Prima-Seal** is a lost circulation material designed to be **effective in combating all types of losses**. It is a formulated blend of granules (bridging agent), fibers (matting agent) and flakes (sealing agent), provided in three grind sizes (fine/medium/coarse).

Each size is designed for certain applications and situations and may be used by itself or in conjunction with other lost circulation additives.



### Sawdust

**Sawdust** is the most economical and readily available lost circulation material choice for mud engineers and is the preferred product for use as an absorbent and deck clean-up on drilling rigs.

**Sawdust** has no additives and is consistent high quality - pure wood product. It is **economical and environmentally friendly**.



### StopLoss

**Earth Pro StopLoss** is a polymer that will expand 300 times its volume in fresh water (50 times in salt water).

This remarkable property makes it an **excellent medium for plugging fissures and cracks** encountered in drilling operations preventing the further loss of drilling fluid.

## POLYMER ADDITIVES



### SynVis D

Earth Pro SynVis D is 100% active, dry granular polymer that disperses readily, resulting in easy mixing without lumps or fish eyes.

Earth Pro SynVis D is primarily **used for viscosity in fresh water systems, gel and/or polymer based systems**. Also functions as a lubricating agent, shale/clay encapsulator and flocculant.

Suitable for all environments, Earth Pro SynVis D is used in Horizontal Directional Drilling, Mineral Exploration, Water Well, Environmental and Oil & Gas Construction industries.



### MultiMix

Earth Pro MultiMix is a dry blend of specially engineered synthetic polymers designed to flexibly **bond loose ground** and **improve wellbore stability** in difficult drilling situations.

It is used to penetrate unconsolidated formations and then fully hydrate to form a sort of polymer glue holding formation in place allowing for drilling to proceed uninhibited.



### ProPac D

Earth Pro ProPac D is a 100% active dry natural based polymer that is used to control fluid loss and enhance filter cakes. It can also be used as a high shear rate viscosity modifier or lubricant.

Common usage of Earth Pro ProPac D is in **Horizontal Directional Drilling, Mineral Exploration** and large **Bore Infrastructure** drilling. Offers optimal carrying capacity in deeper more challenging holes.

# DRILLING FLUIDS & ADDITIVES



## POLYMER ADDITIVES



### CombiVis L

Earth Pro CombiVis L is a liquid suspension of various polymers utilized to cover a broad spectrum of drilling fluid requirements including viscosity, fluid loss control, encapsulation and lubrication.

This product is stable in a wide variety of water chemistries including high and low pH and increased salinity. Earth Pro CombiVis L allows for markedly reduced addition mixing time over dry product in this highly dispersible liquid format.



### HydraVis D

Earth Pro HydraVis D is a naturally derived polymer utilized to **enhance hole cleaning** and **cuttings transport** in both salt and fresh water environments.

Earth Pro HydraVis D is a concentrated product that yields 8-10 times more volume pound for pound when compared to bentonite making Earth Pro HydraVis D a suitable choice for remote site work where transport is costly and facilities are limited.

## POLYMER ADDITIVES



### HydraVis L

Earth Pro HydraVis L is a **liquid suspension of natural polymer** and is used for viscosifying in fresh, brackish and/or salt water. It is best suited where dry polymers can not be dispersed and hydrated easily.

Earth Pro HydraVis L is generally used as a viscosifier but can also be used as a low shear rate viscosity modifier or lubricant.



### SaltVis L

Earth Pro SaltVis L is a liquid emulsion synthetic polymer that is specifically designed to **hydrate to its maximum ability** in salt, brackish or any raised salinity source water.

- Superior shelf life - does not separate like other polymer suspensions
- Easily mixed in liquid form
- Requires minimum amounts of shear to fully hydrate
- Reduces footprint when compared to alternatives like organophilic clays
- Greatly increases the speed and overall yield when compared to liquid guar suspensions



### SynVis L

Earth Pro SynVis L is a high yield, readily dispersible, anionic, liquid synthetic polymer formulation that can act alone or as part of a complete fluid solution for varied demanding drilling situations.

- Increases viscosity to provide hole cleaning and cutting transport
- Shear thinning polymer to reduce pumping pressure demands
- Maintains hole conditions in friable zones such as overburden, silts, sands and clays
- Superior lubricating qualities eliminating vibration while increasing core recovery

# DRILLING FLUIDS & ADDITIVES

## SPECIALTY PRODUCTS



### Claymean L

Earth Pro Claymean L is a drilling fluid additive (organic liquid amine) that is used for **chemical inhibition of water sensitive clay** and **shale formations**. Used in air rotary drilling (all disciplines) and underground tunneling.

Low chlorides within **Earth Pro Claymean L**, alternate to KCl or Salt Brines for the prevention of hydration of clays and shale encountered while drilling.

## SURFACTANTS / FOAM



### BioFoam

Earth Pro BioFoam is a **surfactant blend foam for drill cutting removal** in under balanced fluid systems. Used primarily as a drilling foam that carries cuttings to the surface, **Earth Pro BioFoam** can also be used as a dust suppressant and as a discharge auger coolant.

- Used in air rotary drilling (all disciplines) and underground tunneling
- Non-flammable, non-toxic
- Highly dispersible in water
- Biodegradable

## THINNERS / DISPERSANTS



### Claysperse L

Earth Pro Claysperse L is a cationic liquid dispersant and thinner for water based drilling fluids. It is primarily used for **deflocculation of drill solids** and as a **bentonite thinner**. It can also be used as a filter cake enhancer. It is best suited for fresh water systems with mud weight below 1200 kg/m<sup>3</sup>.

- Used to prevent and treat clay from sticking to the tooling and drill string
- Reduces viscosity in drilling fluid
- Can be utilized for wellbore cleanup prior to production

## WASTE TREATMENT



### Mud Terminator

Eliminate the high cost and difficulty of disposing drilling fluids with **Earth Pro Mud Terminator**. It consists of a proprietary blend of super absorbent polymers and minerals.

The material is non-hazardous, chemically inert (won't react with anything), non-dusty and absorbs very quickly.

**Earth Pro Mud Terminator** is utilized in liquid mud, industrial sludge or in drill cuttings waste expelled by solids control equipment to **absorb free liquid** allowing for the disposal of these products at standard landfills as solid waste.

## WEIGHTING MATERIALS



### Barite

**Barite** is a weighting material possessing a specific gravity ranging from 4.2 to 4.3. It is **used in all muds to increase the density or weight**.

Barite is a non-soluble natural mineral that is non-abrasive to pumping equipment.



### Cal Carb 325

**Calcium Carbonate** ( $\text{CaCO}_3$ ) is a naturally occurring, ground limestone. As **Calcium Carbonate 325** grind, this finer grade of calcium carbonate is used primarily as weighting materials.

**Cal Carb 325** can effectively raise the density of a drilling fluid to a maximum of  $1600\text{kg/m}^3$ .

# CORE RETRIEVAL TOOLS

Di-Corp offers a wide range of **Core Retrieval Tools** that are designed to ensure maximum productivity and core retrieval in any ground condition. The tools are comprised of Drillers Edge Wireline Core Retrieval tools and the associated Drillers Edge Coring Accessories.

The Di-Corp Core Retrieval offering has been designed to be compatible with the industry leader's coring systems while offering enhanced functionality.

**Surface:** B Core Retrieval System, N Core Retrieval System, N2 Core Retrieval System, H Core Retrieval System, P Core Retrieval System

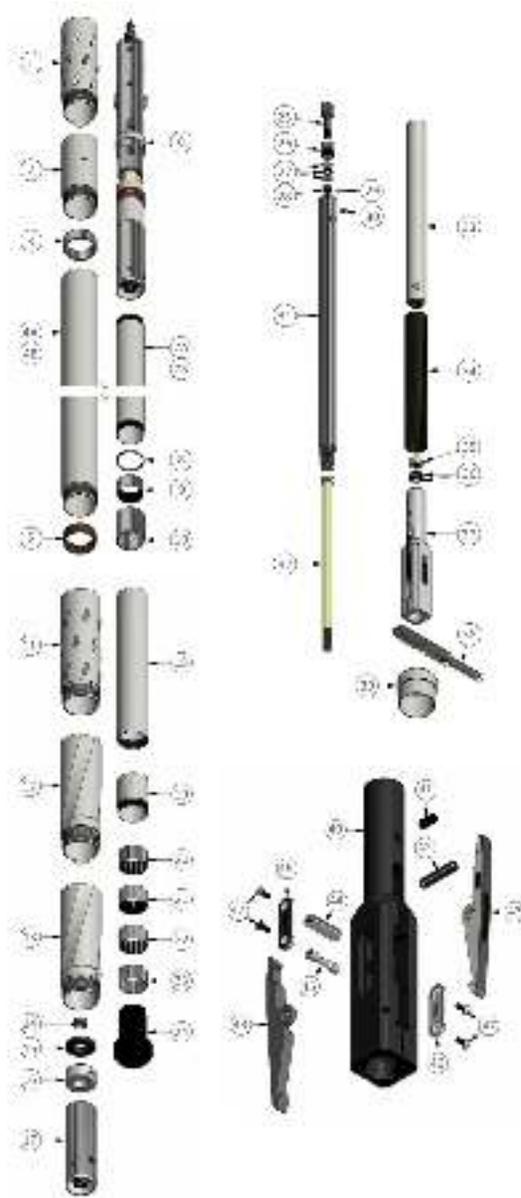
**Triple-Tube:** N3 Core Retrieval System, H3 Core Retrieval System

**Pump-In:** BU Core Retrieval System, NU Core Retrieval System, N2U Core Retrieval System, HU Core Retrieval System

**Thin Wall:** BTW Core Retrieval System, NTW Core Retrieval System

**Thin Wall Pump-In:** BTWU Core Retrieval System, NTWU Core Retrieval System

See the Di-Corp Core Retrieval Systems Catalogue for a full product breakdown of the Drillers Edge Wireline Core Retrieval tools and the associated Drillers Edge Coring Accessories.



## VK Grout Plugs

These plugs are constructed of aluminum and rubber with a soft steel pipe in the center. This allows the grout plug to be drilled out. The **VK Grout Plug** can be adapted to drill rods by a left hand pipe thread which allows them to be removed after cementing. The built-in check valve seals pressure in the hole, which makes it ideal for grouting.

### Components:

- Left or right hand pipe thread
- Wedges
- Rubber seal
- Aluminum tube
- Plastic check ball



## Displacement Plugs

**Displacement Plugs** are used in diamond drilling, wireline drill rods and casing for placing cement plugs or casing pack fluid. The plugs are made of natural rubber and are designed to allow positive placement of a casing pack in the casing annulus or a column of cement grout in the hole without dilution by the drilling fluid while pumping.

**Displacement Plugs** are disposable - it is drilled out after the casing pack or cement slurry is pumped into position.

The main applications are:

- Placing casing pack
- Plugging back with cement
- Grouting



## Safety Plugs

**Safety Plugs** are solid centered expandable plugs designed for hole abandonment and water control. Primarily used in underground applications, the plug is used at the collar of the drill hole.



## Van Ruth Plugs

**Van Ruth Cementing and Wedging (CW) Plugs** are used for wedging in off bottom situations like branch holes. They are most effective as bridge plugs for spot cementing sections of holes and prevent dilution of cement by drilling fluids.

### Construction:

- Drill-able aluminum and rubber
- Also available in non-spark material



## Margo Plugs

A mechanical type hollow stem plug, it comes in all standard sizes and lengths.

The **Margo Plug** comes with 4 sturdy rubber sleeves. It is mainly used to seal off underground drill holes or pump grout through.



## J Plugs

Di-Corp's heavy duty locking plugs (**J Plugs**) are constructed of high impact ABS plastic and are precision machined to fit the inside diameter of PVC or steel wells. An expanding urethane gasket seals the well and protects it from contaminants.



# CORE RETRIEVAL TOOLS

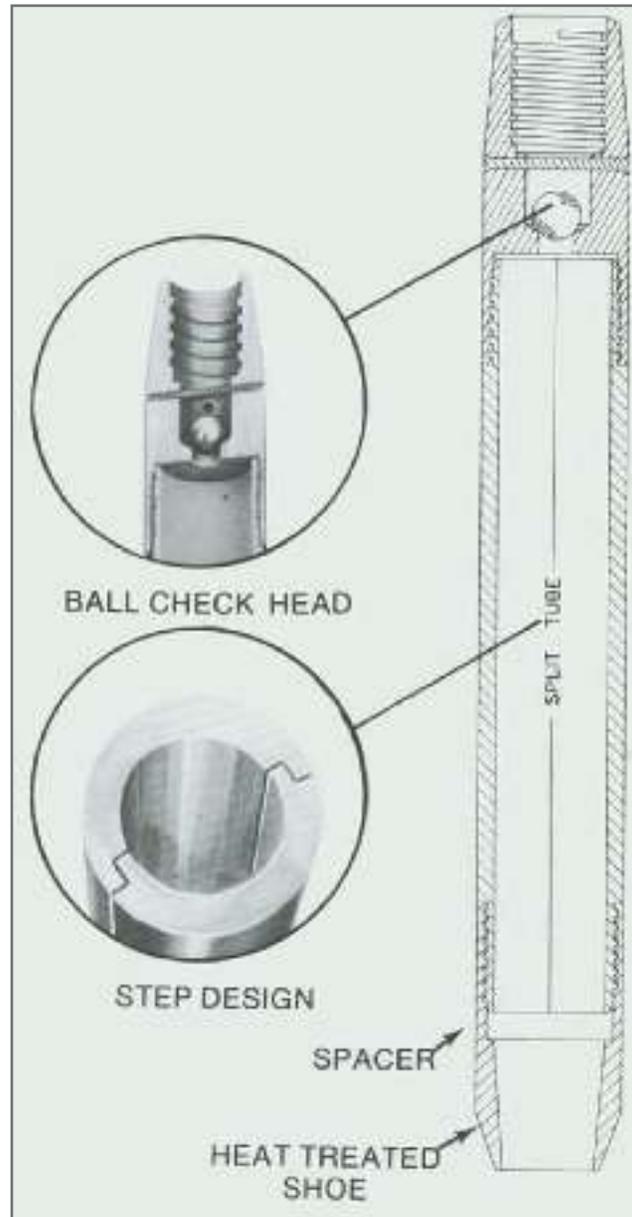
## Lynac Sampler

Heavy duty split tube **Lynac Samplers** are a heavy duty version of the standard split tube sampler. It is designed to better adapt to severe service under hard driving unlike the standard samplers.

Coarse threads in the sampler head speeds assembly and disassembly and the shoe is heat treated to withstand exceptional abuse.

The standard length of the samples is 18" with 24" option. Ball check prevents washing out sample on withdrawal from the hole and the shoe is recessed to accommodate a trap valve and spring or basket retainer.

PART #	DESCRIPTION
30476	2" x 24" AWJ Lynac Sampler HT 4TPI
30462	2" AWJ Lynac Head Assembly
30489	2" Basket Retainer- Soft
30467	2" x 24" Lynac Split Tube HT 4TPI
30486	2" Blunt Lynac Shoe HT 4TPI
47306	AWJ Drill Rod- 2'
47300	Cap Screw 3/8-16 for 3" Head Assembly
47295	AWJ Head Assembly
47222	3" x 30" x 4 Hole Steel Shelby Tube
41261	3" x 24" x 4 Hole Steel Shelby Tube
46260	Orange Plastic Cap Tapered- 3"



## Shelby Tubes

**Shelby Tubes** are thin-walled, hollow steel tubes, which are driven into the ground to extract a relatively undisturbed soil sample for use in laboratory tests used to determine density, permeability, compressibility and strength.

Each tube has one end that is chamfered to form a cutting edge and the upper end includes holes for securing the tube to a drive head.

**Shelby Tubes** are useful for collecting soil that is particularly sensitive to sampling disturbance, including fine cohesive soils and clays. The tubes can also be used to transport samples back to the lab as well.

For available sizes and accessories please contact your sales representative.





# DIAMOND TOOLS

## Diamond Impregnated Bits

Di-Corp works in partnership with you to develop a bit that meets your drilling requirements.

Our matrices are designed to cover a wide range of ground conditions:

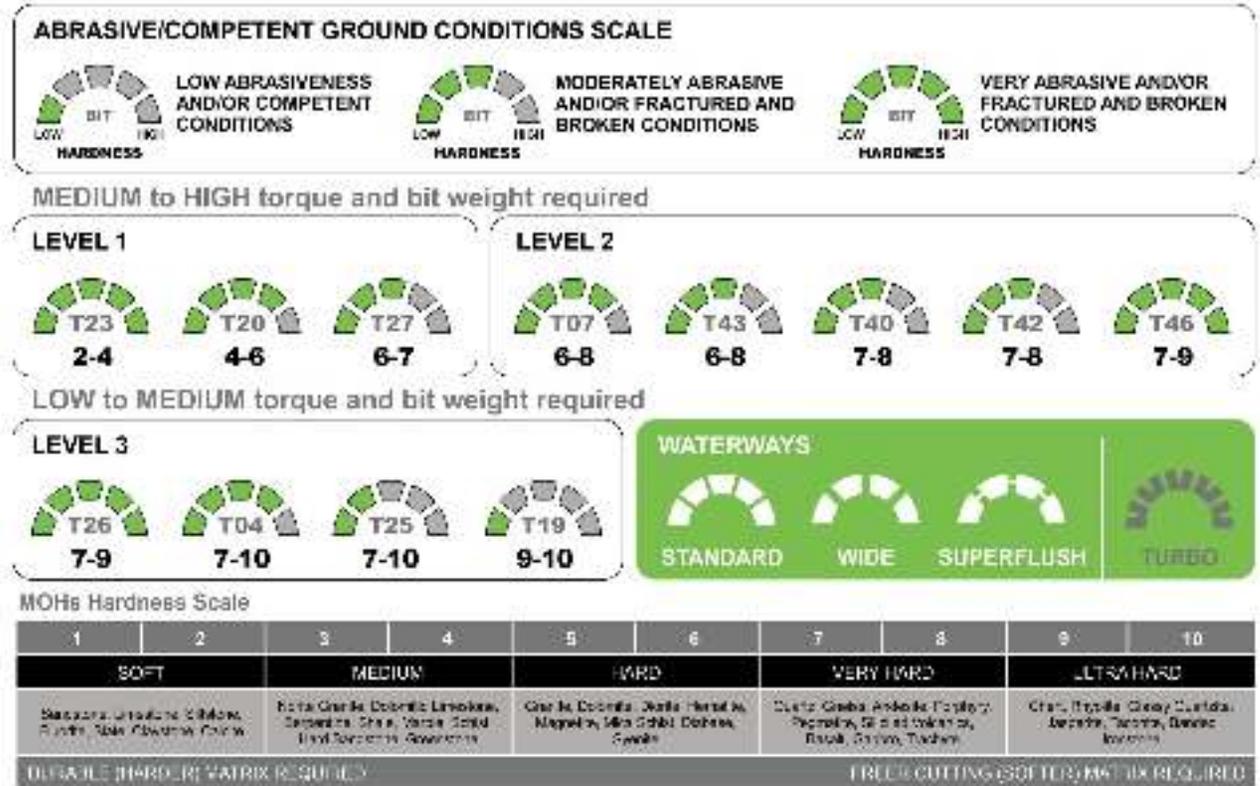
- Soft to ultra hard formations (MOHs 1 to 10)
- Abrasive or non abrasive
- Competent or fractured and broken

Every component of the matrix is given careful consideration to achieve maximum performance and life:

- Diamond type, size and concentration
- Metals and hard materials
- Additives to accelerate wear

Each unique combination of these components form the matrix type (T#) and enables the bit to withstand the demands of the driller and the drill, including high penetration, load and torque.

**Diamond Impregnated Bits** are available in B, BTW, BTK, N, N2, N3, NTW, H, H3, P and P3. For more information please see the Diamond Impregnated Bits Catalogue.



We also carry Surface Set, Carbide, PCD and Tricone Bits

## Carbonado Bits

Di-Corp manufactures a line of bits commonly referred to as **Carbonado's**. They are very similar to surface set bits but use carbonado diamonds which are considerably tougher and more wear resistant than the natural diamonds used in conventional surface set bits. As a result, the **Carbonado Bits** perform better in harder, more abrasive formations, and offer excellent core recovery in broken ground conditions.

Available in N, H and P. For more information please see the Diamond Impregnated Bits Catalogue.

## Rod Shoes

Di-Corp offers two versions of **Rod Shoes** to be used with drill rod if used to case a hole. Level 1 (T11) is a general purpose **Rod Shoe** suited for most drilling conditions through overburden. Level 2 (T12) is a premium shoe for more difficult overburden drilling conditions for improved life with increased diamond concentration, extended impregnation depth and gauge setting.

Available in N, H and P. For more information please see the Diamond Impregnated Bits Catalogue.

## Casing Bits

Di-Corp offers a premium **Casing Bit** set to bit gauge. It is best suited for more difficult overburden drilling conditions including boulders. It offers increased life with increased diamond concentration and extended impregnation depth.

Available in B, N, H and P. For more information please see the Diamond Impregnated Bits Catalogue.

## Reaming Shells

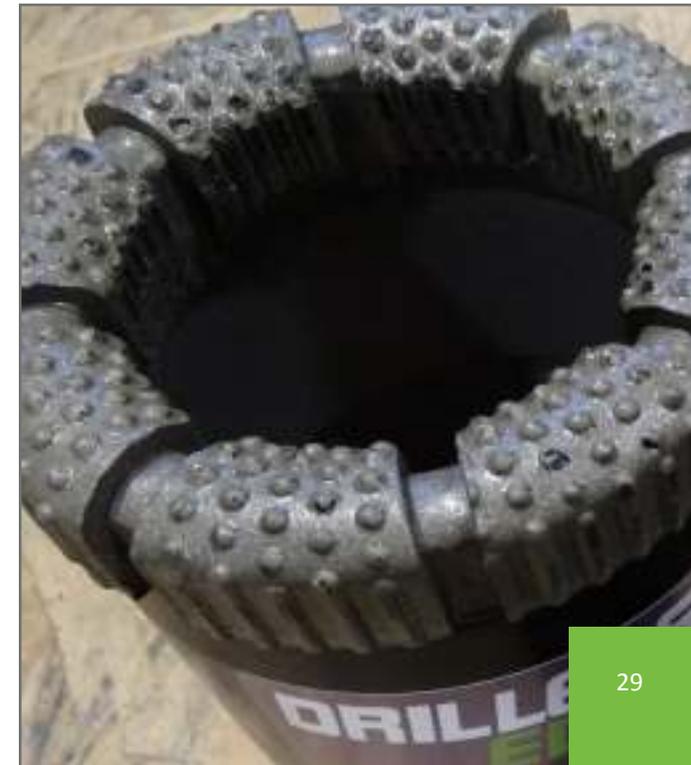
Di-Corp offers high quality **Reaming Shells** to help assist with hole deviation and prevent premature wear of drilling tools due to vibration. It is set with natural diamonds in a wear resistant matrix which is reinforced on the leading edge with carbide wear strips to minimize erosion for longer life.

Available in B, N, H and P. For more information please see the Diamond Impregnated Bits Catalogue.

## Casing Shoes

Di-Corp offers two versions of **Casing Shoes** - Level 1 (T11) and Level 2 (T12). The Level 1 (T11) is a general purpose casing shoe suited for most drilling conditions through overburden (no boulders) and the Level 2 (T12) is a premium shoe for more difficult overburden drilling conditions which offers increased life with increased diamond concentration, extended impregnation depth and gauge setting.

Available in B, N, H and P. For more information please see the Diamond Impregnated Bits Catalogue.



# DRILL RODS, ADAPTOR SUBS & CASING

## Drill Rods

Di-Corp offers the industry's highest quality **Drill Rod**. Threads are precision machined on heat treated alloy steel tubing, produced to the Di-Corp tubing specification, ensuring a tough, strong, straight, concentric product. Our Drill Rods are produced in a brand new state-of-the-art manufacturing facility.

The Di-Corp Drill Rod offering includes the industry standard 'WL' thread design as well as our patented 'D' and 'WT' thread design. All of our Drill Rods are manufactured to our own accurate designs ensuring a quality joint fit as well as compatibility with existing industry product.

Deep Hole Wireline Drill Rod available in ND, HD and PD. LITE Wireline Drill Rod available in ND, NWL, HD and HWL. Standard Wireline Drill Rod available in BWL, NWL, and HWL. For more information please see the Drill Rods & Casing Catalogue.

## Wire Line Casing

The Di-Corp **Wire Line Casing** offering includes the industry standard 'W' design in all sizes as well as the commonly used 'WT' design used in the larger diameter product. Carbon steel tubing, produced to the Di-Corp tubing specification ensures a tough, strong, straight, concentric product. All Casing is precision machined to an industry ISO standard ensuring a quality joint fit as well as compatibility with existing industry product.

Casing available in BW, NW, HW, HWT, PW and PWT. For more information please see the Drill Rods & Casing Catalogue.

## Adaptor Subs

Di-Corp stocks the most commonly used **Adaptor Subs** used in the Exploration Drilling industry. All other sizes and configurations are available upon request. Adaptor subs pass through a Quality Control process prior to being released to the market as a finished product. Available in B, N, H and P. For more information please see the Drill Rods & Casing Catalogue.

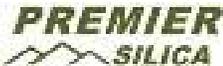


## Geotechnical & Environmental Sand

### Western Canada



Product #	Type	Packaging
49664	Filter Sand 4/10	25 KG
47252	Silica Sand 10/20	50 LB
27071	Silica Sand 20/40	50 LB



Product #	Type	Packaging
47366	Silica Sand 6/9	50 LB
31204	Silica Sand 10/20	50 LB
49012	Silica Sand 12/20	50 LB
47255	Silica Sand 20/40	50 LB



### Eastern Canada



Product #	Type	Packaging
27071	Silica Sand 20/40	50 LB



# PVC ENVIRONMENTAL PIPE



## PVC Environmental Pipe

The quality of our products is of the highest importance. Our strict adherence to ASTM and industry standards guarantee quality in every product.

All of our PVC pipe products are fabricated from Type 1, Grade 1 PVC and are manufactured to applicable ASTM and NSF standards.

All threading is performed to ASTM F-480 specifications (unless otherwise specified) and all of our monitor well casings/screens are no-print, non-solvent cleaned, and plastic wrapped, boxed or encased.

PVC Environmental Pipe is available in Schedule 40, Schedule 40 F-480, Schedule 80, and Schedule 80 F-480. Custom sizes available upon request.

Stainless Steel Screens are also available upon request.

Schedule 40			
Product #	Size	TPI	Description
37988	1" x 10'	8	.020" Slotted
43846	1" x 10'	8	Riser
42254	1" x 10'	8	.010" Slotted
41239	1" x 10'	-	Bell End
37968	1" x 5'	8	.020" Slotted
37874	1" x 5'	8	Riser
37985	1" x 5'	8	.010" Slotted
48816	2" x 10'	2	.015" Slotted
41103	2" x 10'	2	Riser
41096	2" x 10'	2	.010" Slotted
41097	2" x 10'	2	.020" Slotted
41102	2" x 5'	2	Riser
41094	2" x 5'	2	.010" Slotted
41095	2" x 5'	2	.020" Slotted
43488	4" x 10'	2	Riser
42258	4" x 10'	2	.010" Slotted
47278	4" x 10"	2	.020" Slotted
38001	4" x 10'	4	.010" Slotted
37879	4" x 5'	2	Riser
37878	4" x 5'	2	.010" Slotted
49473	4" x 5'	2	.020" Slotted
37996	4" x 5'	4	.010" Slotted
37997	4" x 5'	4	.020" Slotted
37998	4" x 5'	4	.030" Slotted
37999	4" x 5'	4	.040" Slotted
37885	6" x 10'	2	Riser
38011	6" x 10'	2	.020" Slotted

Schedule 80			
Product #	Size	TPI	Description
49021	.50" x 10'	8	Riser
49101	1.25" x 10'	2	Riser
47052	1.50" x 10'	2	.010" Slotted
47053	1.50" x 10'	2	Riser
47047	1" x 10'	8	Riser
48849	1" x 10'	8	.010" Slotted
48850	1" x 10'	8	.020" Slotted
48948	1" x 5'	8	Riser
48949	1" x 5'	8	.010" Slotted
48950	1" x 5'	8	.020" Slotted
41105	2" x 10'	2	Riser
41100	2" x 10'	2	.010" Slotted
41101	2" x 10'	2	.020" Slotted
41085	2" x 5'	2	.020" Slotted
41104	2" x 5'	2	Riser
41098	2" x 5'	2	.010" Slotted
48811	4" x 10'	4	Riser
48809	4" x 10'	4	.010" Slotted
48810	4" x 10'	4	.020" Slotted

## Slope Inclinometer Casing

**Slope Inclinometer Casing** is a special purpose pipe used in inclinometer installations. It maintains access for the inclinometer probe, allowing it to obtain subsurface measurements as well as controls the orientation of the probe via internal grooves. **Slope Inclinometer Casing** also conforms to movement of the surround ground.

Product #	Description
47098	QC Casing 70 mm x 3 m (2.75" x 10')
49020	QC Casing 70 mm x 1.5 m (2.75" x 5')
48901	QC Casing 85 mm x 3 m (3.34" x 10')
48908	QC Casing 85 mm x 1.5 m (3.34" x 5')
49019	QC Anchor for 70 mm (2.75") Casing
48909	QC Anchor for 85 mm (3.34") Casing
47099	QC Indicator Top Cap 70 mm (2.75")
47100	QC Bottom Cap 70 mm (2.75")
48902	QC Top Cap 85 mm (3.34")



## PVC Caps & Points

Di-Corp offers a range of **Caps and Points** for Geotechnical & Environmental drilling applications including **PVC Sandpoints**, **PVC Slip Caps**, and **PVC Threaded caps**. All caps and points are manufactured to Schedule 40 or Schedule 80 specifications.

PVC Sand Points		
Product #	Size	Schedule
47463	1" x 8 TPI	40
47462	1" (Slip)	40
37971	2" x 2 TPI Box	40
44158	2" x 2 TPI Box	80
46037	2" x 2 TPI	80
47480	4" x 4 TPI	40

PVC Threaded Caps		
Product #	Size	Schedule
49592	1.5" x 2 TPI	80
44159	2" x 2 TPI	80
38575	2" x 2 TPI	40
49148	6" x 2 TPI	40

PVC Slip Caps		
Product #	Size	Schedule
49468	1/2"	80
37792	1"	40
38573	2"	40
48769	2"	80
41713	4"	80

## Kleer-Kore Tubes

**Kleer-Kore Tubes** are rugged, resilient, transparent PVC tubes designed to allow accurate, visual insitu inspection of soft, stick or broken core.

**Kleer-Kore Tubes** can be capped immediately to preserve moisture and allows transportation to your laboratories without disturbance and damage.

**Kleer-Kore Tubes** eliminate the need for costly triple-tube stainless steel liners and considerably reduces wear and damage to inner tubes.

**Kleer-Kore Tubes** are ideal for use with potentially hazardous core as truly hands-off inspection is possible. The close tolerance dimensions of **Kleer-Kore Tubes** makes handling sheer simple.



# ACCESSORIES

## Centralizers

**Centralizers** easily attach to screens and risers to prevent off center well placement. Di-Corp offers Stainless Steel as well as PVC (with clamp) Bow String Centralizers. Custom sizes available.

Stainless Steel Centralizers	
Product #	Description
48844	1" Stainless Steel Centralizer
36607	2" Stainless Steel Centralizer
47046	3.78" Stainless Steel Centralizer
36608	4" Stainless Steel Centralizer
47001	4.5" Stainless Steel Centralizer
36609	6" Stainless Steel Centralizer
36615	7" Stainless Steel Centralizer
49121	8" Stainless Steel Centralizer

PVC Centralizers	
Product #	Description
46883	2.5" x 6" x 11" PVC Centralizer with Clamp
47412	2" x 4.5" PVC Centralizer with Clamp

## Soil Bags

**Soil Bags** come in 102 cm (W) x 102 cm (L) x 102 cm (H) size with Duffle Top. These bags are made of **lightweight flexible packaging** and are stackable for easy storage. These bags are reusable and competitively priced. They are suitable for a variety of industry requirements.

## Locking Well Caps

**Aluminum Locking Caps** are ideal for monitoring wells providing a light weight material for easy handling, impervious to the elements with the aluminum construction and lockable to prevent vandalism.

This are 2 piece caps. The bottom cap is held in place with set screws and the upper cap is secured with a padlock. \*Padlock not included.

Product #	Size	Description
37784	4.5"	Well Cap
37785	5-5/8"	Well Cap
37786	6-5/8"	Well Cap
49505	6-5/8"	Vented w/ 1" Conduit Neck
47257	7"	Well Cap

## Casing Protectors

**Monuments & Steel Casing Protectors** are quality machined to avoid possible damage to an installed well. The lockable protectors have aluminum locking caps to **avoid any contamination to the well**. Di-Corp offers a range of **Monuments & Casing Protectors** and well covers for various well sizes.

Product #	Size	Description
37932	4" x 5'	Hinged Cap Well Cover
41161	4.5" x 5'	Casing Protector with Locking Cap Well Cover
41342	5-9/16" x 5'	Casing Protector with Locking Cap Well Cover
41169	5-9/16" x 5'	Casing Protector
39604	6" x 5'	Hinged Cap Well Cover
47258	6-5/8" x 5'	Casing Protector with Locking Cap Well Cover
41165	6-5/8" x 5'	Casing Protector
49457	8-5/8" x 5'	Casing Protector

## PVC Prepacks

**Prepacked screens** consist of a standard, slotted PVC well screen pipe surrounded by a stainless steel mesh.

Di-Corp offers a 3" x 2" x 5' x .010" PVC Pipe Field-Pack Screen.

## Wooden Quad Boxes

A **Wooden Quad box** is used as a well protector. It sits on the ground by the well to prevent anything running over the well and damaging it. Di-Corp manufactures these boxes in a variety of sizes. Please contact us for more information or with specific size requests.

## Well Markers

Di-Corp's flexible high visibility orange **Well Markers** are made to attach to a standard Steel Casing Protector to clearly identify a completed well that may be obstructed from view. We carry 1-1/2" x 4-1/2" Well Markers as well as 1-1/2" x 7-1/2" Well Markers.



## Wooden Core Boxes

Di-Corp manufactured **Wooden Core Boxes** are more resistant to weather and will endure on site handling better than cardboard core boxes.

Our **Wooden Core Boxes** can be used over and over again; are easy to handle and to stack. We manufacture everything locally and we are able to accommodate any possible customized sizing and quantity. Contact us for more details or further size requirements.

Product #	Size	Description
39743	NQ	3 Row Wooden Core Box
39904	NQ	4 Row Wooden Core Box
39905	NQ	5 Row Wooden Core Box
47864	PQ3	Wooden Core Box
48938	HQ	Wooden Core Box



## Kwik Klamps & Parts

The **Kwik Klamp** is the most popular tool used worldwide by well drillers, pump installers, well servicemen, and environmental drillers. The **Kwik Klamp** allows workers to bring pipe up to an easy working level.

**Kwik Klamp** is available in three styles. **Kwik Klamp 1** is for pipe sizes 1" - 2", **Kwik Klamp 2** can also hold 2" pipe with a purchase of an additional jaw set (a set of spacers can be purchased to allow this clamp to hold 4 1/2" pipe) and **Kwik Klamp 3** was designed to hold 6" PVC pipe (additional jaw pads and bolts can be purchased to convert the **Kwik Klamp 3** to hold 5" PVC pipe).





## **GEOHERMAL PRODUCTS**

As a definite industry standout, Di-Corp is one of very few suppliers that cater to the Geothermal Drilling and Installations market. We provide any and all of the products and supplies required by this enormous market segment.

## BENTONITE PRODUCTS



### Extra High Yield Bentonite

Extra High Yield Bentonite has a higher performance formula that makes it very effective. This premium grade beneficiated Wyoming Bentonite is designed for use in **mineral exploration, water well** and **directional drilling** operations.



It is an efficient viscosifier that performs well in a variety of water qualities. It successfully reduces application rates, and mixes easily / quickly. **Extra High Yield Bentonite** is listed with the National Sanitation Foundation for use in potable water well construction. It is a 220-235 bbl yield product.

## CEMENTS & GROUTS



### Grout-Well & Grout-Well DF

Grout-Well and Grout-Well DF are one step bentonite grouting materials designed to **achieve low permeability seals in water wells, monitor wells, geotechnical borings, and heat pump holes.**



**Grout-Well and Grout-Well DF** achieve a range of solids contents, 17% to 20% solids by weight. **Grout-Well DF's** granular nature reduces dusty conditions during mixing operations.



### Therm-Ex Grout

**Therm-Ex Grout** is an engineered system for use as back **fill material in earth-coupled heat pump systems.** Its elevated thermal conductivity and low permeability allow for excellent heat exchange while protecting groundwater supplies.

**Therm-Ex Grout** should be pumped using a positive displacement pump capable of generating pressures in excess of 300 psi. Developed using high swelling Wyoming Bentonite, this new generation of grouting material offers efficient installation of closed-loop geothermal heat pump systems.

# DRILLING FLUIDS & ADDITIVES

## GENERAL CHEMICALS



### pH Up Soda Ash

Sodium Carbonate anhydrous commonly known as Soda Ash, is a chemical compound used widely in the drilling industry as a water based mud conditioner and contaminant treatment additive.

**Earth Pro pH Up Soda Ash** is used to precipitate calcium in make up water, which **softens the water and elevates the water's pH level** prior to mixing mud additives. This is desirable since bentonite and some polymers provide better yield in soft, slightly alkaline water.



### pH Down Citric

**Earth Pro pH Down Citric** can be added to any water based system where it is desired to lower the pH.

Regional disposal regulations sometimes mandate that the fluid being disposed of must be at a certain pH. This product works to **adjust pH levels**.



### Calcium Nitrate

**Calcium Nitrate** is a readily soluble source of calcium that can be utilized as a **coagulant in a clear water drilling system**.

In certain systems and at certain concentrations this product can also function as a clay and shale inhibitor.



## Chem Clean Green

Earth Pro Chem Clean Green is the preferred cleaner for grease and grime.

This concentrated, hard-working degreaser goes to work right away, emulsifying and deodorizing. Its grease-fighting solvents and emulsifiers work great on heavy-duty cleaning tasks. It can also be diluted for light-duty cleaning tasks.

- Removes oil and grease in many cleaning applications
- Biodegradable and cost-effective
- Contains no petroleum distillates



## Calcium Chloride 94-97%

Calcium Chloride (94-97%) is a basic manufactured salt, which is hygroscopic and highly soluble in water.

Calcium Chloride (94-97%) has a wide variety of uses:

- Freeze point suppression for water
- Material for increasing density
- Ice melter
- Dust controller



## Sodium Bicarbonate

Sodium Bicarbonate is commonly known as Bi-Carb, Baking Soda or Bicarbonate of Soda.

Sodium Bicarbonate is most commonly used for treating cement contamination by precipitating the calcium as calcium carbonate and reducing the pH.

# DRILLING FLUIDS & ADDITIVES

## GREASES, LUBRICANTS & COMPOUNDS



### Nikal Thread Compound

**Nikal Thread Lube** is a premium quality anti-seize and gasket compound for use in extreme temperatures and hostile environments.

**Nikal Thread Lube** contains pure nickel flake and a nearly inert dispersing solid in a high quality aluminum complex base grease which provides **unsurpassed protection from rust** by water penetration or water wash off.

### Eco-Safe

**Eco-Safe** nonmetallic thread compound is a premium quality product containing carbon based fibers and additives and other natural extreme pressure and anti-wear additives.

These are blended into a high temperature calcium complex base grease. This new base grease offers the additional advantage of **superior adhesion to wet steel surfaces, resistance to water wash-off, and resistance to most drilling muds**. It is especially effective for invert or high-pH muds.

### Kopr-Kote

**Kopr-Kote** Drill Collar Compound and Tool Joint Compound is an unleaded, premium quality compound containing copper flake, graphite, rust and corrosion inhibitors, antioxidants, and other natural extreme pressure and anti-wear additives.

**Kopr-Kote** provides positive protection for **rotary shouldered connections under severe drilling conditions** where the probability of downhole make-up is anticipated. **Kopr-Kote** prevents high stress levels which shorten the useful life of drill string connections.

### Well-Guard

**Well-Guard** is a high performance thread compound specifically designed for critical monitor well and other environmentally sensitive drilling applications requiring the use of a petroleum hydrocarbon-free product.

**Well-Guard** is formulated from a synergistic blend of synthetic fluids and non metallic, inorganic, EPO and anti wear additives. It provides maximum **protection against galling, seizing, and damage to threads** while maintaining monitor well integrity.

### Jet-Lube 21

**Jet-Lube 21**, a double duty tool joint compound, has been formulated to provide a superior level of performance for today's oilfield market. Its lead-free formulation contains copper flake as the only metallic component, and is fortified by a unique blend of natural, inorganic extreme pressure and anti-wear additives.

Truly a **double duty tool joint compound**, it can be used throughout the entire drill string - 'from the swivel to the bit' - on tool joints, drill collars, and all subsurface tools in medium drilling conditions to depths of 10,000 feet.

## GREASES, LUBRICANTS & COMPOUNDS



### TurboCut

**Earth Pro TurboCut** is a liquid lubricant specifically designed to be added directly to water based systems. No tripping to grease and re-grease rods.

Provides **constant lubrication** for rods and down hole tools to extend life, decrease torque and increase rate of penetration even when used in small concentrations.



### Thread Compound

**Earth Pro Thread Compound** is factory coated on the box and pin ends of every Drillers Edge Rod and Casing. It's then protected with biodegradable plastic end caps to ensure it remains in place until used on the first make and break of the joint.

- Less friction for reduced galling
- Lowers torque requirements - proper makeup is achieved quickly with minimum torque
- Performs as an excellent sealant at pressures up to 20,000 psi
- Environmentally friendly



# DRILLING FLUIDS & ADDITIVES

## LOST CIRCULATION MATERIALS



### Prima-Seal

**Prima-Seal** is a lost circulation material designed to be effective in combating all types of losses. It is a formulated blend of granules (bridging agent), fibers (matting agent) and flakes (sealing agent), provided in three grind sizes (fine/medium/coarse).

Each size is designed for certain applications and situations and may be used by itself or in conjunction with other lost circulation additives.



### Sawdust

**Sawdust** is the most economical and readily available lost circulation material choice for mud engineers and is the preferred product for use as an absorbent and deck clean-up on drilling rigs.

**Sawdust** has no additives and is consistent high quality - pure wood product. It is **economical and environmentally friendly**.

### Plugz-It Max

**Plugz-It Max** is a lost circulation material designed to mix and pump with a drilling fluid into cobble, gravel, or fractured zones to restore mud circulation. It readily seals off coarse gravels, fractured formations, and other profiles where mud-loss is a problem.

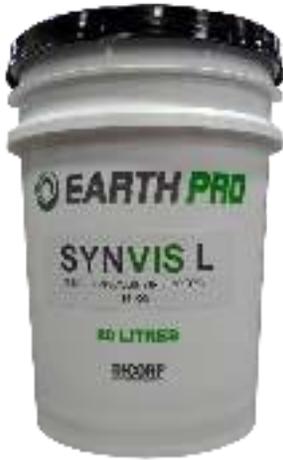
**Plugz-It Max** can be placed directly through the jets in the bit provided they are a minimum of 3 mm or 1/8" in size. It is **environmentally safe** and **non-toxic**.

### StopLoss

**Earth Pro StopLoss** is a polymer that will expand 300 times its volume in fresh water (50 times in salt water).

This remarkable property makes it an **excellent medium for plugging fissures and cracks** encountered in drilling operations preventing the further loss of drilling fluid.

## POLYMER ADDITIVES



### SynVis L

Earth Pro SynVis L is a high yield, readily dispersible, anionic, liquid synthetic polymer formulation that can act alone or as part of a complete fluid solution for varied demanding drilling situations.

- Increases viscosity to provide hole cleaning and cutting transport
- Shear thinning polymer to reduce pumping pressure demands
- Maintains hole conditions in friable zones such as overburden, silts, sands and clays
- Superior lubricating qualities eliminating vibration while increasing core recovery

### MultiMix

Earth Pro MultiMix is a dry blend of specially engineered synthetic polymers designed to flexibly **bond loose ground** and **improve wellbore stability** in difficult drilling situations.

It is used to penetrate unconsolidated formations and then fully hydrate to form a sort of polymer glue holding formation in place allowing for drilling to proceed uninhibited.

### ProPac D

Earth Pro ProPac D is a 100% active dry natural based polymer that is used to control fluid loss and enhance filter cakes. It can also be used as a high shear rate viscosity modifier or lubricant.

Common usage of Earth Pro ProPac D is in **Horizontal Directional Drilling, Mineral Exploration** and large **Bore Infrastructure** drilling. Offers optimal carrying capacity in deeper more challenging holes.

# DRILLING FLUIDS & ADDITIVES

## POLYMER ADDITIVES



### HydraVis L

Earth Pro HydraVis L is a **liquid suspension of natural polymer** and is used for viscosifying in fresh, brackish and/or salt water. It is best suited where dry polymers can not be dispersed and hydrated easily.

Earth Pro HydraVis L is generally used as a viscosifier but can also be used as a low shear rate viscosity modifier or lubricant.

## SPECIALTY PRODUCTS



### TurboCut

Earth Pro TurboCut is a liquid lubricant specifically designed to be added directly to water based systems. No tripping to grease and re-grease rods.

Provides **constant lubrication** for rods and down hole tools to extend life, decrease torque and increase rate of penetration even when used in small concentrations.



### Claymean L

Earth Pro Claymean L is a drilling fluid additive (organic liquid amine) that is used for **chemical inhibition of water sensitive clay** and **shale formations**. Used in air rotary drilling (all disciplines) and underground tunneling.

Low chlorides within Earth Pro Claymean L, alternate to KCl or Salt Brines for the prevention of hydration of clays and shale encountered while drilling.

## SURFACTANTS / FOAM



### BioFoam

Earth Pro BioFoam is a **surfactant blend foam for drill cutting removal** in under balanced fluid systems. Used primarily as a drilling foam that carries cuttings to the surface, **Earth Pro BioFoam** can also be used as a dust suppressant and as a discharge auger coolant.

- Used in air rotary drilling (all disciplines) and underground tunneling
- Non-flammable, non-toxic
- Highly dispersible in water
- Biodegradable

## THINNERS / DISPERSANTS



### Claysperse L

Earth Pro Claysperse L is a cationic liquid dispersant and thinner for water based drilling fluids. It is primarily used for **deflocculation of drill solids** and as a **bentonite thinner**. It can also be used as a filter cake enhancer. It is best suited for fresh water systems with mud weight below 1200 kg/m<sup>3</sup>.

- Reduces viscosity in drilling fluid
- Can be utilized for wellbore cleanup prior to production
- Used to treat some contaminants in bentonite slurries

## WEIGHTING MATERIALS

### Barite

**Barite** is a weighting material possessing a specific gravity ranging from 4.2 to 4.3. It is **used in all muds to increase the density or weight**.

Barite is a non-soluble natural mineral that is non-abrasive to pumping equipment.

### Cal Carb 325

**Calcium Carbonate** (CaCO<sub>3</sub>) is a naturally occurring, ground limestone. As **Calcium Carbonate 325** grind, this finer grade of calcium carbonate is used primarily as weighting materials.

**Cal Carb 325** can effectively raise the density of a drilling fluid to a maximum of 1600kg/m<sup>3</sup>.

# ACCESSORIES

## Pipe & Loop Accessories

Geothermal heating & cooling uses the earth's renewable energy, just below the surface, to heat or cool a home or other building, and to help provide hot water.

At Di-Corp we can provide you with all sizes and configurations of **Geothermal pipe and accessories** for Closed-Loop and Open-Loop systems.

Unicoil with U-Bend Cap and Air		
Product #	Size	SDR
47168	3/4" x 150'	11.0
47270	3/4" x 185'	11.0
49221	3/4" x 200'	11.0
49223	3/4" x 300'	11.0
46873	1" x 315'	9.0
49205	1" x 350'	11.0
46743	1" x 375'	11.0
49131	1" x 400'	11.0
49204	1" x 500'	11.0
49641	1-1/4" x 155'	11.0
48968	1-1/4" x 200'	11.0
48748	1-1/4" x 205'	11.0
46811	1-1/4" x 250'	11.0
47030	1-1/4" x 270'	11.0
46980	1-1/4" x 275'	11.0
46984	1-1/4" x 285'	11.0
46977	1-1/4" x 305'	11.0
46612	1-1/4" x 310'	11.0
46976	1-1/4" x 325'	11.0

Unicoil with U-Bend Cap and Air Continued		
Product #	Size	SDR
47417	1-1/4" x 330'	11.0
49198	1-1/4" x 350'	11.0
46978	1-1/4" x 380'	11.0
49102	1-1/4" x 406'	11.0
47105	1-1/4" x 420'	11.0
49103	1-1/4" x 425'	11.0
47269	1-1/4" x 460'	11.0
47470	1-1/4" x 470'	11.0
47131	1-1/4" x 475'	11.0
49203	1-1/4" x 492'	11.0
48741	1-1/4" x 500'	11.0
47473	1-1/4" x 505'	11.0
46897	1-1/4" x 510'	11.0
48803	1-1/4" x 515'	11.0
47141	1-1/4" x 600'	11.0
47368	1-1/4" x 605'	11.0
49551	1-1/4" x 644'	11.0
47253	1-1/4" x 650'	11.0

Dual Coil with U-Bend Cap and Air		
Product #	Size	SDR
47051	1-1/4" x 560'	11.0
47455	1-1/4" x 575'	11.0
49461	1-1/4" x 580'	11.0
47060	1-1/4" x 595'	11.0
47059	1-1/4" x 610'	11.0

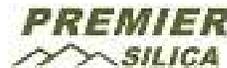
Reels & Sticks		
Product #	Size	SDR / PSI
47479	3/4" x 600'	11 SDR
48834	1" x 12'	11 SDR
49046	1" x 200'	75 PSI
49047	1" x 300'	75 PSI
46910	1" x 800'	11 SDR
46284	1-1/4" x 500'	11 SDR
47478	1-1/4" x 640'	11 SDR
49529	1-1/4" x 650'	11 SDR
46715	1-1/4" x 1500'	100 PSI
48833	1-1/2" x 12'	11 SDR
46716	1-1/2" x 250'	100 PSI
46985	2" x 20'	11 SDR
47069	2" x 50'	11 SDR
48777	2" x 200'	100 PSI
49307	2" x 250'	11 SDR
49567	2" x 500'	11 SDR
47384	2" x 500'	75 PSI
47385	2" x 500'	100 PSI
47450	2" x 500'	100 PSI / 17 SDR
48975	2" x 1000'	160 PSI
47122	3" x 40'	13.5 SDR
49282	3" x 50'	13.5 SDR
46771	3" x 500'	13.5 SDR

## Rod Wipers

**Rod Wipers** help clean excess dirt and mud from rods before and after use. **Rod Wipers** are placed under the probe so when the rod string is retracted, the rubber wipers wipe away mud and dirt from the rod.

Product #	Size	Description
44010	2" x 9"	Split Rod Wiper
49031	2" x 12"	Rod Wiper
46511	2-1/8" x 9"	Rod Wiper
46219	2-3/8" x 9"	Rod Wiper
44312	2-1/2" x 9"	Rod Wiper
33158	2-3/4" x 9"	Rod Wiper
46706	2-3/4" x 14"	Dual Split Rod Wiper
41949	2-7/8" x 12"	Rod Wiper
49073	2-7/8" x 14"	Rod Wiper
47414	3" x 6-1/2"	Flat for 3-1/2" OD Pipe
38458	3" x 9"	Flat for 3-1/2" OD Pipe
46514	3-1/4" x 14"	Dual Split Rod Wiper
33170	3-1/2" x 9"	Rod Wiper
46053	3-1/2" x 12"	Flat for 3-1/2" Drill Rod
49311	4-1/4" x 12"	Flat for 4-1/2" Drill Rod
43811	4-3/8" x 12"	Rod Wiper
43810	4-1/2" x 9"	Rod Wiper
44289	4-1/2" x 9"	OD Thin Rod Wiper
46422	4-1/2" x 12"	Flat for 4-1/2" Drill Rod
46385	7-5/8" x 12"	Rod Wiper
46515	9" x 2-3/4"	Rod Wiper

## Geothermal Sand



### Western Canada

Product #	Type	Packaging
47252	Silica Sand 10/20	50 LB
27071	Silica Sand 20/40	50 LB
19640	Silica Sand 50/100	40 KG
30122	Silica Sand #16	80 LB

Product #	Type	Packaging
47366	Silica Sand 6/9	50 LB
31203	Silica Sand 8/12	50 LB
47389	Silica Sand 10/16	50 LB
31204	Silica Sand 10/20	50 LB
49012	Silica Sand 12/20	50 LB
44439	Silica Sand 16/30	50 LB
47255	Silica Sand 20/40	50 LB
48814	Silica Sand 30/70	50 LB

### Eastern Canada

Product #	Type	Packaging
27071	Silica Sand 20/40	50 LB



## HORIZONTAL DIRECTIONAL DRILLING

Di-Corp prides itself on the extensive supply offerings we make to the horizontal directional drilling market. We offer Drilling Fluids and Additives, HDD Tooling supplies, and every other related product in between. Di-Corp will deliver on all of your HDD project requirements.

## BENTONITE PRODUCTS



### Extra High Yield Bentonite

**Extra High Yield Bentonite** has a higher performance formula that makes it very effective. This premium grade beneficiated Wyoming Bentonite is designed for use in **mineral exploration, water well** and **directional drilling** operations.



It is an efficient viscosifier that performs well in a variety of water qualities. It successfully reduces application rates, and mixes easily / quickly. **Extra High Yield Bentonite** is listed with the National Sanitation Foundation for use in potable water well construction. It is a 220-235 bbl yield product.



### Tru-Bore

**Tru-Bore** is a highly concentrated, bentonite based drilling fluid used for difficult drilling operations in both vertical and horizontal borings. **Tru-Bore** is non-toxic and environmentally safe.



It serves as a true **one-sack solution for horizontal drilling applications**. It is extremely effective at maintaining hole integrity during pullback with horizontal drilling. **Tru-Bore** stabilizes formations ranging from moderate clay to high sand concentrations.



## CEMENTS & GROUTS



### Enviroplug Tablets

Enviroplug Tablets (Coated & Uncoated) are manufactured for use in **piezometer holes, monitor wells** and **other sealing and plugging applications**.

Enviroplug Tablets swell in water to more than 10 times their original volume.

Coated EnviroPlug Tablets make a high density, low permeability seal between sand packs and high solids bentonite grouts, and isolate screen sections in **multi-completion wells**.



### Enviroplug

Enviroplug Medium & Coarse are pure Wyoming Bentonites, designed for use as sealants for **hole abandonment, casing seals** or **any vertical seal to prevent water movement** up or down a bore hole.



When absorbing water, it swells to fill voids, exerting pressure against all surfaces to create a flexible low permeability seal.

Since **Enviroplug** is introduced in a dry state, shrinkage cannot occur and there is a reserve expansion capacity. Generally hydration takes 1 to 2 hours.



### Enviroplug No. 8, 16 & 20

Enviroplug No. 8, 16 and 20 are high-swelling Wyoming Bentonites in granular form.

The unique molecular structure allows them to **absorb five times their weight of water** and **swell to a volume of 12 to 16 times their dry bulk**, making it an ideal well sealant.

Applied dry or in a pumpable slurry, the fine granules expand against casings and formations to create a very low permeability flexible grout seal.

## CEMENTS & GROUTS



### Grout-Well & Grout-Well DF

Grout-Well and Grout-Well DF are one step bentonite grouting materials designed to **achieve low permeability seals in water wells, monitor wells, geotechnical borings, and heat pump holes.**



Grout-Well and Grout-Well DF achieve a range of solids contents, 17% to 20% solids by weight. Grout-Well DF's granular nature reduces dusty conditions during mixing operations.



### Portland Cement

Portland Cement is a high quality, cost-effective basic cement used in **Mineral Exploration, Geotechnical & Environmental, HDD, Oil Sands Coring** and **Water Well** drilling applications.

Portland Cement meets or exceeds all applicable chemical and physical requirements of ASTM C 150 and CSA A3000-03 (formerly A5-98).

Portland Cement can be used where early strength is required as well as in applications requiring moderately low levels of heat generation during the hydration process.

## FLOCCULANTS & COAGULANTS

### Hyperdrill AD 855

Hyperdrill AD 855 is a 40% active hydrolyzed polyacrylamide in liquid form.

It can be used as a **flocculant to promote water clarification** in clear water drilling, a foam stabilizer or it may be used in conjunction with K+ to stabilize shale.

### Hyperdrill AE 853

Hyperdrill AE 853 is a high molecular weight, medium charge, polyacrylamide supplied as a low viscosity emulsion. By design, it mixes easily and yields rapidly.

Hyperdrill AE 853 is a very **versatile polymer** which can be used for oil, gas, water and mineral drilling. It can be added to fresh, KCL or sea water based drilling fluid systems.

## FLOCCULANTS & COAGULANTS



### Magnafloc 430 / Zetag 7692

**Magnafloc 430 / Zetag 7692** is an effective cationic **flocculant used for clear water drilling and fluid clarification in closed systems.**

**Magnafloc 430 / Zetag 7692** is very effective in dewatering water-based systems, especially those that contain significant amounts of potassium salts, biopolymers, and PACs.

### Hyperdrill CP 905H

**Hyperdrill CP 905H** is an effective cationic flocculant used for clear water drilling and fluid clarification in closed systems.

It is **very effective in dewatering water-based systems**, especially those that contain significant amounts of potassium salts, biopolymers, and PAC's.

### Calcium Nitrate

**Calcium Nitrate** is a readily soluble source of calcium that can be utilized as a **coagulant in a clear water drilling system.**

In certain systems and at certain concentrations this product can also function as a clay and shale inhibitor.

### Hyperdrill AF 247RD

**Hyperdrill AF 247RD** has been developed to provide **improved shale stabilization/inhibition in drilling fluids with minimal effect on rheology.**

It is suitable for use in fresh water, seawater, K<sup>+</sup> polymer, and other inhibitive water-based systems.

It's improved rheological properties allow for the addition of higher concentrations with reduced viscosity humping in solids laden muds.

### Alcomer 120L OS

**Alcomer 120L OS** is a synthetic, high molecular weight, anionic, acrylamide-based copolymer. It is supplied as a high activity, water-free dispersion of polymer in a low-toxicity mineral oil.

Alcomer 120L OS is a truly **multi-functional product used primarily as a viscosifier and as a borehole stabilizer** to prevent clays from swelling. It is also used for viscosity, shale/clay stabilization, fluid loss control, bentonite extension, flocculation and lubrication.

## GENERAL CHEMICALS



### pH Up Soda Ash

Sodium Carbonate anhydrous commonly known as Soda Ash, is a chemical compound used widely in the drilling industry as a water based mud conditioner and contaminant treatment additive.

**Earth Pro pH Up Soda Ash** is used to precipitate calcium in make up water, which **softens the water and elevates the water's pH level** prior to mixing mud additives. This is desirable since bentonite and some polymers provide better yield in soft, slightly alkaline water.



### pH Down Citric

**Earth Pro pH Down Citric** can be added to any water based system where it is desired to lower the pH.

Regional disposal regulations sometimes mandate that the fluid being disposed of must be at a certain pH. This product works to **adjust pH levels**.



### Calcium Chloride 94-97%

**Calcium Chloride (94-97%)** is a basic manufactured salt, which is hygroscopic and highly soluble in water.

**Calcium Chloride (94-97%)** has a wide variety of uses:

- Freeze point suppression for water
- Material for increasing density
- Ice melter
- Dust controller



## GENERAL CHEMICALS

### Chem Clean Green

Earth Pro Chem Clean Green is the preferred **cleaner for grease and grime.**

This concentrated, hard-working degreaser goes to work right away, emulsifying and deodorizing. Its grease-fighting solvents and emulsifiers work great on heavy-duty cleaning tasks. It can also be diluted for light-duty cleaning tasks.

- Removes oil and grease in many cleaning applications
- Biodegradable and cost-effective
- Contains no petroleum distillates



### Sodium Bicarbonate

**Sodium Bicarbonate** is commonly known as Bi-Carb, Baking Soda or Bicarbonate of Soda.

**Sodium Bicarbonate** is most commonly used for **treating cement contamination** by precipitating the calcium as calcium carbonate and reducing the pH.

- Non-hazardous and widely available
- An effective, economic treatment for calcium removal
- Quickly reduces soluble calcium levels and fluid pH
- Easy to mix and use - soluble in water
- Safe to use - noncombustible

## GREASES, LUBRICANTS & COMPOUNDS



### Nikal Thread Compound

**Nikal Thread Lube** is a premium quality anti-seize and gasket compound for use in extreme temperatures and hostile environments.

**Nikal Thread Lube** contains pure nickel flake and a nearly inert dispersing solid in a high quality aluminum complex base grease which provides **unsurpassed protection from rust** by water penetration or water wash off.



### Kopr-Kote

**Kopr-Kote** Drill Collar Compound and Tool Joint Compound is an unleaded, premium quality compound containing copper flake, graphite, rust and corrosion inhibitors, antioxidants, and other natural extreme pressure and anti-wear additives.

**Kopr-Kote** provides positive protection for **rotary shouldered connections under severe drilling conditions** where the probability of downhole make-up is anticipated. **Kopr-Kote** prevents high stress levels which shorten the useful life of drill string connections.



### Eco-Safe

**Eco-Safe** nonmetallic thread compound is a premium quality product containing carbon based fibers and additives and other natural extreme pressure and anti-wear additives. These are blended into a high temperature calcium complex base grease.

**Eco-Safe** offers the additional advantage of **superior adhesion to wet steel surfaces, resistance to water wash-off, and resistance to most drilling muds**. It is especially effective for invert or high-pH muds.

# DRILLING FLUIDS & ADDITIVES

## GREASES, LUBRICANTS & COMPOUNDS

### Well-Guard

**Well-Guard** is a high performance thread compound specifically designed for critical monitor well and other environmentally sensitive drilling applications requiring the use of a petroleum hydrocarbon-free product.

**Well-Guard** is formulated from a synergistic blend of synthetic fluids and non metallic, inorganic, EPO and anti wear additives. It provides maximum **protection against galling, seizing, and damage to threads** while maintaining monitor well integrity.



### Jet-Lube 21

**Jet-Lube 21**, a double duty tool joint compound, has been formulated to provide a superior level of performance for today's oilfield market. Its lead-free formulation contains copper flake as the only metallic component, and is fortified by a unique blend of natural, inorganic extreme pressure and anti-wear additives.

Truly a **double duty tool joint compound**, it can be used throughout the entire drill string - 'from the swivel to the bit' - on tool joints, drill collars, and all subsurface tools in medium drilling conditions to depths of 10,000 feet.

### TurboCut

**Earth Pro TurboCut** is a liquid lubricant specifically designed to be added directly to water based systems. No tripping to grease and re-grease rods.

Provides **constant lubrication** for rods and down hole tools to extend life, decrease torque and increase rate of penetration even when used in small concentrations.



### Thread Compound

**Earth Pro Thread Compound** is factory coated on the box and pin ends of every Drillers Edge Rod and Casing. It's then protected with biodegradable plastic end caps to ensure it remains in place until used on the first make and break of the joint.

- Less friction for reduced galling
- Lowers torque requirements - proper makeup is achieved quickly with minimum torque
- Performs as an excellent sealant at pressures up to 20,000 psi
- Environmentally friendly

## LOST CIRCULATION MATERIALS



### Cellophane

Clear multi-sized flakes of polycellulose, with an average size of 9.5mm (3/8"). **Cellophane** is used as a **sealing agent supplement to other lost circulation material**.

**Cellophane** works with low and normal density slurries and has excellent bridging properties. It is non-toxic, biodegradable, chemically inert and environmentally safe. **Cellophane** does not affect the compressive strength of the material.



### Prima-Seal

**Prima-Seal** is a lost circulation material designed to be effective in **combating all types of losses**. It is a formulated blend of granules (bridging agent), fibers (matting agent) and flakes (sealing agent), provided in three grind sizes (fine/medium/coarse).

Each size is designed for certain applications and situations and may be used by itself or in conjunction with other lost circulation additives.



### Sawdust

**Sawdust** is the most economical and readily available lost circulation material choice for mud engineers and is the preferred product for use as an absorbent and deck clean-up on drilling rigs.

**Sawdust** has no additives and is consistent high quality - pure wood product. It is **economical and environmentally friendly**.

# DRILLING FLUIDS & ADDITIVES

## LOST CIRCULATION MATERIALS



### Walnut

A lost circulation material of ground **Walnut** is available in three grades, fine, medium, and coarse; ranging in size from 100 mesh to 6 mesh.

Used as a **lost circulation material or bridging agent** due to its granular nature. **Walnut** is chemically inert and may be added to any mud system.



### Magma Fiber

**Magma Fiber** is a specially formulated acid soluble, extrusion spun mineral fiber for lost circulation problems. It is 97.3% soluble in a 7.5% HCL acid.

It is a spun mineral fiber, which acts as a **plugging and bridging agent** to plug voids, fractures, and all types of permeable formations.



### StopLoss

**Earth Pro StopLoss** is a polymer that will expand 300 times its volume in fresh water (50 times in salt water).

This remarkable property makes it an **excellent medium for plugging fissures and cracks** encountered in drilling operations preventing the further loss of drilling fluid.

## POLYMER ADDITIVES



### SynVis D

Earth Pro SynVis D is 100% active, dry granular polymer that disperses readily, resulting in easy mixing without lumps or fish eyes.

Earth Pro SynVis D is primarily used for viscosity in fresh water systems, gel and/or polymer based systems. Also functions as a lubricating agent, shale/clay encapsulator and flocculant.

Suitable for all environments, Earth Pro SynVis D is used in Horizontal Directional Drilling, Mineral Exploration, Water Well, Environmental and Oil & Gas Construction industries.

### SynVis L

Earth Pro SynVis L is a high yield, readily dispersible, anionic, liquid synthetic polymer formulation that can act alone or as part of a complete fluid solution for varied demanding drilling situations.

- Increases viscosity to provide hole cleaning and cutting transport
- Shear thinning polymer to reduce pumping pressure demands
- Maintains hole conditions in friable zones such as overburden, silts, sands and clays
- Superior lubricating qualities eliminating vibration while increasing core recovery

### MultiMix

Earth Pro MultiMix is a dry blend of specially engineered synthetic polymers designed to flexibly bond loose ground and improve wellbore stability in difficult drilling situations.

It is used to penetrate unconsolidated formations and then fully hydrate to form a sort of polymer glue holding formation in place allowing for drilling to proceed uninhibited.

# DRILLING FLUIDS & ADDITIVES

## POLYMER ADDITIVES



### ProPac D

Earth Pro ProPac D is a 100% active dry natural based polymer that is used to control fluid loss and enhance filter cakes. It can also be used as a high shear rate viscosity modifier or lubricant.

Common usage of Earth Pro ProPac D is in **Horizontal Directional Drilling**, **Mineral Exploration** and large **Bore Infrastructure** drilling. Offers optimal carrying capacity in deeper more challenging holes.



### HydraVis D

Earth Pro HydraVis D is a naturally derived polymer utilized to **enhance hole cleaning** and **cuttings transport** in both salt and fresh water environments.

Earth Pro HydraVis D is a concentrated product that yields 8-10 times more volume pound for pound when compared to bentonite making Earth Pro HydraVis D a suitable choice for remote site work where transport is costly and facilities are limited.



### AE 851

Earth Pro AE 851 can be used as a **viscosifier**, **foam stabilizer**, and as a **flocculant** to promote water clarification when clear water drilling.

- Drilling fluid additive - viscosifier, foam stabilizer or flocculant
- Anionic water soluble polymer
- Can be used in gumbo shales
- Holes larger than 222 mm will require higher concentrations when used as a flocculant

## POLYMER ADDITIVES



### SaltVis L

**Earth Pro SaltVis L** is a liquid emulsion synthetic polymer that is specifically designed to **hydrate to its maximum ability** in salt, brackish or any raised salinity source water.

- Superior shelf life - does not separate like other polymer suspensions
- Easily mixed in liquid form
- Requires minimum amounts of shear to fully hydrate
- Reduces footprint when compared to alternatives like organophilic clays
- Greatly increases the speed and overall yield when compared to liquid guar suspensions



### Poly-Xan

**Earth Pro Poly-Xan** is a high molecular weight biopolymer of Xanthan Gum. It is used primarily as a **viscosifier in fresh water, seawater or saline muds**. It also provides a measure of filtration control.

**Earth Pro Poly-Xan** is designed to provide viscosity on shallow and medium depth wells where economics demand high performance at a reasonable cost.



### Staflor

**Staflor** is a low molecular weight, polyanionic cellulose polymer of high purity. It is available in Regular and Exlo Supreme grades and is a **primary fluid-loss reducer** for water-based drilling fluids.

**Staflor Regular** also provides secondary viscosity. When fluid loss control without additional viscosity is required, **Staflor Exlo Supreme** should be used.

## SPECIALTY PRODUCTS



### XL-Defoamer

**Earth Pro XL-Defoamer** is a powerful defoamer intended for use where mild to severe foaming of aqueous based fluids has occurred.

It is effective at all pH ranges, at high temperatures and over a wide salinity range.



### Claymean L

**Earth Pro Claymean L** is a drilling fluid additive (organic liquid amine) that is used for **chemical inhibition of water sensitive clay** and **shale formations**. Used in air rotary drilling (all disciplines) and underground tunneling.

Low chlorides within **Earth Pro Claymean L**, alternate to KCl or Salt Brines for the prevention of hydration of clays and shale encountered while drilling.

## THINNERS / DISPERSANTS



### Claysperse L

**Earth Pro Claysperse L** is a cationic liquid dispersant and thinner for water based drilling fluids. It is primarily used for **deflocculation of drill solids** and as a **bentonite thinner**. It can also be used as a filter cake enhancer. It is best suited for fresh water systems with mud weight below 1200 kg/m<sup>3</sup>.

- Reduces viscosity in drilling fluid
- Can be utilized for wellbore cleanup prior to production
- Used to treat some contaminants in bentonite slurries

## THINNERS / DISPERSANTS



### Drilling Detergent L

Earth Pro Drilling Detergent L is an anionic, liquid, surface wetting agent. It is added to water based mud systems to **reduce surface tension**.

- Promotes solids setting and reduces pump pressure
- Increased penetration rates
- Reduced hole friction and torque
- Reduced wear on surface mud system expendables
- Increased bit life



### Di-Sperse 72L

Earth Pro Di-Sperse 72L is effective at any pH and due to its rapid dissolution, it immediately affects the flow properties of a drilling fluid.

Its primary function is to act as a **flow control agent by reducing viscosity and gel strengths** in conventional and low solids water based drilling fluids.



### TKPP

TKPP is an alternative to SAPP and Earth Pro Drilling Detergent L. This product is a concentrated dispersant that acts to **prevent clay from building up** and **sticking to tooling and rods**.

It may be added to any water based system either directly to the entire mud system or in concentrated form by adding directly to tool joints on connections and pumped as a sweep.

# DRILLING FLUIDS & ADDITIVES

## WASTE TREATMENT



### Mud Terminator

Eliminate the high cost and difficulty of disposing drilling fluids with **Earth Pro Mud Terminator**. It consists of a proprietary blend of super absorbent polymers and minerals.

The material is non-hazardous, chemically inert (won't react with anything), non-dusty and absorbs very quickly.

**Earth Pro Mud Terminator** is utilized in liquid mud, industrial sludge or in drill cuttings waste expelled by solids control equipment to **absorb free liquid** allowing for the disposal of these products at standard landfills as solid waste.

## WEIGHTING MATERIALS



### Barite

**Barite** is a weighting material possessing a specific gravity ranging from 4.2 to 4.3. It is **used in all muds to increase the density or weight**.

Barite is a non-soluble natural mineral that is non-abrasive to pumping equipment.



### Cal Carb 325

**Calcium Carbonate** ( $\text{CaCO}_3$ ) is a naturally occurring, ground limestone. As **Calcium Carbonate 325** grind, this finer grade of calcium carbonate is used primarily as weighting materials.

**Cal Carb 325** can effectively raise the density of a drilling fluid to a maximum of  $1600\text{kg/m}^3$ .



## INFRASTRUCTURE PRODUCTS

Di-Corp caters to various disciplines within the Infrastructure market place. These include tailings ponds, dams, tunneling, slurry wall, foundations, marine, jet grouting and civil construction. We supply steel & bentonite products for virtually any form of drilling or construction application.



## BENTONITE PRODUCTS



### Hydrogel

For use in drilling operations where premium grade Wyoming Bentonite is desired.



**Hydrogel** is a preferred product for use in oil and gas exploration drilling where API 13A Section 9 material is required. It is also used in slurry trenching, caisson boring, and cast-in-place concrete foundations.

**Hydrogel** is NSF Certified to NSF/ANSI 60.

## WASTE TREATMENT



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## Split Steel Casing

Di-Corp manufactures **Split Steel Casing** to provide protection for cabling along bridges or underneath rail lines.

For bridge applications we manufacture custom support brackets, standard couplings, heavy duty 2 part couplings as well as expansion joints in black steel or galvanized finishes.

Custom tube lengths as well as a variety of wall thickness's available based on your application.

Size	Schedule	Length	Finish
4"	40	10.5"	Galvanized or black
6"	40	10.5"	Galvanized or black
8"	40	10.5"	Galvanized or black
10"	40	10.5"	Galvanized or black
12"	40	10.5"	Galvanized or black



## Bolted Couplings

**Bolted Couplings** are either galvanized or stainless steel shells which are easy to install. Precision cut inner sleeves and gaskets, available in white, silicone and Viton.

The thick stiffener bars provide added strength and thick 1/8" black neoprene gaskets are standard. Stainless anti-static strips included.

Threaded bolts won't strip or break and replacement gaskets are available. Gasket protectors are available upon request.

Product #	Bolts	Size
46358	3	2-3/8"
46783	4	3-1/2"
41815	4	4-1/2"
44510	3	4-1/2"
44585	4	5-9/16"
46190	3	6-5/8"
41817	4	6-5/8"
46063	4	8-5/8"
48955	3	10-3/4"
41802	4	10-3/4"
49701	4	12"
41804	4	12-3/4"
49209	4	14"
48788	4	16"

## Support Brackets

Di-Corp can provide custom **Support Brackets** for a wide range of applications whether you want to attach to an existing steel structure or along a concrete girder bridge.

Di-Corp offers **Support Brackets** with CWB welds and engineered drawings for any application.



# ACCESSORIES



## Expansion Joints

Di-Corp offers both **Heavy Duty Expansion Joints** and **Heavy Duty 2 Part Expansion Joints** for Infrastructure applications such as tailings ponds, construction, slurry walls, foundations, marine, etc. We offer these in black or galvanized finishes. They are easy to install and come with all the necessary hardware.

Offered in sizes from 4"-12" diameters in SCH40 or SCH80. Custom sizes are also available.



## Heavy Duty 2 Part Clamps

Di-Corp offers **Heavy Duty 2 Part Clamps** in black or galvanized finishes for the Infrastructure industry in applications such as tailings ponds, civil construction, slurry wall, and dams. They are easy to install and come with heavy duty rubber liner as well as the necessary hardware.

**Heavy Duty 2 Part Clamps** are offered in sizes from 4"-12" diameters in SCH40 or SCH80. Custom sizes are also available.



## Tube & Pipe Bends

Di-Corp offers long and short radius **Tube & Pipe Bends** for pneumatic conveying systems.

Internal mandrel bending equipment provides top quality bends from 2" up to 12" in Schedule 40 and Schedule 80 as well as in bare, galvanized or black finishes that cover all standard tube and pipe sizes.

Selected materials specific to the conveying industry provide consistent, uniform and durable bends.



## JET GROUTING PRODUCTS

Di-Corp helps you find the proper mixture of drilling fluids and additives for jet grouting in order to consolidate and strengthen grounds for tunnel boring machines, underpinning, slope stabilization and excavation support.

# DRILLING FLUIDS & ADDITIVES

## BENTONITE PRODUCTS



### Hydrogel

For use in drilling operations where premium grade Wyoming Bentonite is desired.



**Hydrogel** is a preferred product for use in oil and gas exploration drilling where API 13A Section 9 material is required. It is also used in slurry trenching, caisson boring, and cast-in-place concrete foundations.

**Hydrogel** is NSF Certified to NSF/ANSI 60.

## FLOCCULANTS & COAGULANTS



### SynVis L

**Earth Pro SynVis L** is a high yield, readily dispersible, anionic, liquid synthetic polymer formulation that can act alone or as part of a complete fluid solution for varied demanding drilling situations.

- Increases viscosity to provide hole cleaning and cutting transport
- Shear thinning polymer to reduce pumping pressure demands
- Maintains hole conditions in friable zones such as overburden, silts, sands and clays
- Superior lubricating qualities eliminating vibration while increasing core recovery

### Magnafloc 430 / Zetag 7692

**Magnafloc 430 / Zetag 7692** is an effective cationic **flocculant used for clear water drilling and fluid clarification in closed systems.**

**Magnafloc 430 / Zetag 7692** is very effective in dewatering water-based systems, especially those that contain significant amounts of potassium salts, biopolymers, and PACs.

### AE 851

**Earth Pro AE 851** can be used as a **viscosifier, foam stabilizer**, and as a **flocculant** to promote water clarification when clear water drilling.

- Drilling fluid additive - viscosifier, foam stabilizer or flocculant
- Anionic water soluble polymer
- Can be used in gumbo shales
- Holes larger than 222 mm will require higher concentrations when used as a flocculant

## GENERAL CHEMICALS



### pH Up Soda Ash

Sodium Carbonate anhydrous commonly known as Soda Ash, is a chemical compound used widely in the drilling industry as a water based mud conditioner and contaminant treatment additive.

**Earth Pro pH Up Soda Ash** is used to precipitate calcium in make up water, which **softens the water and elevates the water's pH level** prior to mixing mud additives. This is desirable since bentonite and some polymers provide better yield in soft, slightly alkaline water.



### pH Down Citric

**Earth Pro pH Down Citric** can be added to any water based system where it is desired to lower the pH.

Regional disposal regulations sometimes mandate that the fluid being disposed of must be at a certain pH. This product works to **adjust pH levels**.



### Chem Clean Green

**Earth Pro Chem Clean Green** is the preferred **cleaner for grease and grime**.

This concentrated, hard-working degreaser goes to work right away, emulsifying and deodorizing. Its grease-fighting solvents and emulsifiers work great on heavy-duty cleaning tasks. It can also be diluted for light-duty cleaning tasks.

- Removes oil and grease in many cleaning applications
- Biodegradable and cost-effective
- Contains no petroleum distillates

# DRILLING FLUIDS & ADDITIVES

## GREASES, LUBRICANTS & COMPOUNDS



### Kopr-Kote

**Kopr-Kote** Drill Collar Compound and Tool Joint Compound is an unleaded, premium quality compound containing copper flake, graphite, rust and corrosion inhibitors, antioxidants, and other natural extreme pressure and anti-wear additives.

**Kopr-Kote** provides positive protection for **rotary shouldered connections under severe drilling conditions** where the probability of downhole make-up is anticipated. **Kopr-Kote** prevents high stress levels which shorten the useful life of drill string connections.



### Eco-Safe

**Eco-Safe** nonmetallic thread compound is a premium quality product containing carbon based fibers and additives and other natural extreme pressure and anti-wear additives. These are blended into a high temperature calcium complex base grease.

**Eco-Safe** offers the additional advantage of **superior adhesion to wet steel surfaces, resistance to water wash-off, and resistance to most drilling muds**. It is especially effective for invert or high-pH muds.

## POLYMER ADDITIVES

### Poly-Xan

**Earth Pro Poly-Xan** a high molecular weight biopolymer of Xanthan Gum. It is used primarily as a **viscosifier in fresh water, seawater or saline muds**. It also provides a measure of filtration control.

**Earth Pro Poly-Xan** is designed to provide viscosity on shallow and medium depth wells where economics demand high performance at a reasonable cost.

### Staflor

**Staflor** is a low molecular weight, polyanionic cellulose polymer of high purity. It is available in Regular and Exlo Supreme grades and is a **primary fluid-loss reducer** for water-based drilling fluids.

**Staflor Regular** also provides secondary viscosity. When fluid loss control without additional viscosity is required, **Staflor Exlo Supreme** should be used.

## POLYMER ADDITIVES



### SynVis D

Earth Pro SynVis D is 100% active, dry granular polymer that disperses readily, resulting in easy mixing without lumps or fish eyes.

Earth Pro SynVis D is primarily **used for viscosity in fresh water systems, gel and/or polymer based systems**. Also functions as a lubricating agent, shale/clay encapsulator and flocculant.

Suitable for all environments, Earth Pro SynVis D is used in Horizontal Directional Drilling, Mineral Exploration, Water Well, Environmental and Oil & Gas Construction industries.

### SynVis L

Earth Pro SynVis L is a high yield, readily dispersible, anionic, liquid synthetic polymer formulation that can act alone or as part of a complete fluid solution for varied demanding drilling situations.

- Increases viscosity to provide hole cleaning and cutting transport
- Shear thinning polymer to reduce pumping pressure demands
- Maintains hole conditions in friable zones such as overburden, silts, sands and clays
- Superior lubricating qualities eliminating vibration while increasing core recovery

### ProPac D

Earth Pro ProPac D is a 100% active dry natural based polymer that is used to control fluid loss and enhance filter cakes. It can also be used as a high shear rate viscosity modifier or lubricant.

Common usage of Earth Pro ProPac D is in **Horizontal Directional Drilling, Mineral Exploration** and large **Bore Infrastructure** drilling. Offers optimal carrying capacity in deeper more challenging holes.

# DRILLING FLUIDS & ADDITIVES

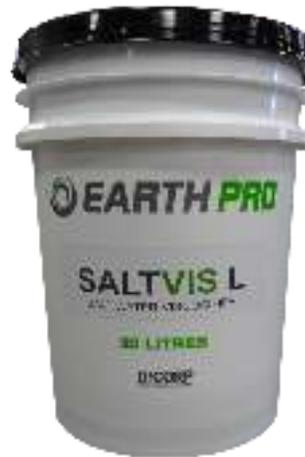
## POLYMER ADDITIVES



### HydraVis D

Earth Pro HydraVis D is a naturally derived polymer utilized to **enhance hole cleaning** and **cuttings transport** in both salt and fresh water environments.

Earth Pro HydraVis D is a concentrated product that yields 8-10 times more volume pound for pound when compared to bentonite making Earth Pro HydraVis D a suitable choice for remote site work where transport is costly and facilities are limited.



### SaltVis L

Earth Pro SaltVis L is a liquid emulsion synthetic polymer that is specifically designed to **hydrate to its maximum ability** in salt, brackish or any raised salinity source water.

- Superior shelf life - does not separate like other polymer suspensions
- Easily mixed in liquid form
- Requires minimum amounts of shear to fully hydrate
- Reduces footprint when compared to alternatives like organophilic clays
- Greatly increases the speed and overall yield when compared to liquid guar suspensions

## SURFACTANTS / FOAM



### Drilling Detergent L

Earth Pro Drilling Detergent L is an anionic, liquid, surface wetting agent. It is added to water based mud systems to **reduce surface tension**.

- Promotes solids setting and reduces pump pressure
- Increased penetration rates
- Reduced hole friction and torque
- Reduced wear on surface mud system expendables
- Increased bit life

## SURFACTANTS / FOAM



### BioFoam

Earth Pro BioFoam is a **surfactant blend foam for drill cutting removal** in under balanced fluid systems. Used primarily as a drilling foam that carries cuttings to the surface, **Earth Pro BioFoam** can also be used as a dust suppressant and as a discharge auger coolant.

- Used in air rotary drilling (all disciplines) and underground tunneling
- Non-flammable, non-toxic
- Highly dispersible in water
- Biodegradable

## THINNERS / DISPERSANTS



### Claysperse L

Earth Pro Claysperse L is a cationic liquid dispersant and thinner for water based drilling fluids. It is primarily used for **deflocculation of drill solids** and as a **bentonite thinner**. It can also be used as a filter cake enhancer. It is best suited for fresh water systems with mud weight below 1200 kg/m<sup>3</sup>.

- Reduces viscosity in drilling fluid
- Can be utilized for wellbore cleanup prior to production
- Used to treat some contaminants in bentonite slurries



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- Reduced wear on surface mud system expendables
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## WASTE TREATMENT



### Mud Terminator

Eliminate the high cost and difficulty of disposing drilling fluids with **Earth Pro Mud Terminator**. It consists of a proprietary blend of super absorbent polymers and minerals.

The material is non-hazardous, chemically inert (won't react with anything), non-dusty and absorbs very quickly.

**Earth Pro Mud Terminator** is utilized in liquid mud, industrial sludge or in drill cuttings waste expelled by solids control equipment to **absorb free liquid** allowing for the disposal of these products at standard landfills as solid waste.



## MINERAL EXPLORATION PRODUCTS

Di-Corp offers more than 300 products to the Mineral Exploration industry; a product collection that is able to satisfy every mineral exploration company's full cycle project requirements. Offering drilling fluids, equipment and accessories for all Mineral Exploration activities.



## BENTONITE PRODUCTS



### Extra High Yield Bentonite

**Extra High Yield Bentonite** has a higher performance formula that makes it very effective. This premium grade beneficiated Wyoming Bentonite is designed for use in **mineral exploration, water well** and **directional drilling** operations.



It is an efficient viscosifier that performs well in a variety of water qualities. It successfully reduces application rates, and mixes easily / quickly. **Extra High Yield Bentonite** is listed with the National Sanitation Foundation for use in potable water well construction. It is a 220-235 bbl yield product.

## CEMENTS & GROUTS



### Enviroplug Tablets

**Enviroplug Tablets (Coated & Uncoated)** are manufactured for use in **piezometer holes, monitor wells** and **other sealing and plugging applications**.

**Enviroplug Tablets** swell in water to more than 10 times their original volume.

**Coated EnviroPlug Tablets** make a high density, low permeability seal between sand packs and high solids bentonite grouts, and isolate screen sections in **multi-completion wells**.

## CEMENTS & GROUTS



### Enviroplug

Enviroplug Medium & Coarse are pure Wyoming Bentonites, designed for use as sealants for **hole abandonment**, **casing seals** or **any vertical seal to prevent water movement** up or down a bore hole.



When absorbing water, it swells to fill voids, exerting pressure against all surfaces to create a flexible low permeability seal.

Since **Enviroplug** is introduced in a dry state, shrinkage cannot occur and there is a reserve expansion capacity. Generally hydration takes 1 to 2 hours.



### Enviroplug No. 8, 16 & 20

Enviroplug No. 8, 16 and 20 are high-swelling Wyoming Bentonites in granular form.

The unique molecular structure allows them to **absorb five times their weight of water** and **swell to a volume of 12 to 16 times their dry bulk**, making it an ideal well sealant.

Applied dry or in a pumpable slurry, the fine granules expand against casings and formations to create a very low permeability flexible grout seal.



### Grout-Well & Grout-Well DF

Grout-Well and Grout-Well DF are one step bentonite grouting materials designed to **achieve low permeability seals in water wells**, **monitor wells**, **geotechnical borings**, and **heat pump holes**.



**Grout-Well and Grout-Well DF** achieve a range of solids contents, 17% to 20% solids by weight. **Grout-Well DF's** granular nature reduces dusty conditions during mixing operations.

# DRILLING FLUIDS & ADDITIVES

## CEMENTS & GROUTS



### Portland Cement

**Portland Cement** is a high quality, cost-effective basic cement used in **Mineral Exploration, Geotechnical & Environmental, HDD, Oil Sands Coring** and **Water Well** drilling applications.

**Portland Cement** meets or exceeds all applicable chemical and physical requirements of ASTM C 150 and CSA A3000-03 (formerly A5-98).

**Portland Cement** can be used where early strength is required as well as in applications requiring moderately low levels of heat generation during the hydration process.

## GENERAL CHEMICALS



### Sodium Bicarbonate

**Sodium Bicarbonate** is most commonly used for **treating cement contamination** by precipitating the calcium as calcium carbonate and reducing the pH.

- Non-hazardous and widely available
- An effective, economic treatment for calcium removal
- Quickly reduces soluble calcium levels and fluid pH
- Easy to mix and use - soluble in water



### Chem Clean Green

**Earth Pro Chem Clean Green** is the preferred **cleaner for grease and grime**.

This concentrated, hard-working degreaser goes to work right away, emulsifying and deodorizing. Its grease-fighting solvents and emulsifiers work great on heavy-duty cleaning tasks. It can also be diluted for light-duty cleaning tasks.

- Removes oil and grease in many cleaning applications
- Biodegradable and cost-effective
- Contains no petroleum distillates

## GENERAL CHEMICALS



### pH Up Soda Ash

Sodium Carbonate anhydrous commonly known as Soda Ash, is a chemical compound used widely in the drilling industry as a water based mud conditioner and contaminant treatment additive.

**Earth Pro pH Up Soda Ash** is used to precipitate calcium in make up water, which **softens the water and elevates the water's pH level** prior to mixing mud additives. This is desirable since bentonite and some polymers provide better yield in soft, slightly alkaline water.



### pH Down Citric

**Earth Pro pH Down Citric** can be added to any water based system where it is desired to lower the pH.

Regional disposal regulations sometimes mandate that the fluid being disposed of must be at a certain pH. This product works to **adjust pH levels**.

### Calcium Nitrate

**Calcium Nitrate** is a readily soluble source of calcium that can be utilized as a **coagulant in a clear water drilling system**.

In certain systems and at certain concentrations this product can also function as a clay and shale inhibitor.

### Calcium Chloride 94-97%

**Calcium Chloride (94-97%)** is a basic manufactured salt, which is hygroscopic and highly soluble in water.

**Calcium Chloride (94-97%)** has a wide variety of uses:

- Freeze point suppression for water
- Material for increasing density
- Ice melter
- Dust controller

# DRILLING FLUIDS & ADDITIVES

## GREASES, LUBRICANTS & COMPOUNDS

### Bio Bear Rod Grease

**Earth Pro Bio Bear Rod Grease** is a blend of naturally sourced oil and non-toxic surfactants. It can be used to lubricate the outside of drill rods or as grease for slides on rod handlers.

**Earth Pro Bio Bear Rod Grease** can be used as an **environmentally friendly (biodegradable) alternative to heavy metal mineral oil greases** which are not environmentally friendly. No heavy metals to contaminate core samples.



### Big Bear Rod Grease

**Earth Pro Big Bear Rod Grease** is specially thickened extreme pressure grease with additives that provide **corrosion, wear and oxidation resistance**.

Tackiness assures adherence to drill rods while providing superior resistance to water washing and centrifugal separation. It possesses the right degree of fibrous characteristics to permit easy smearing of the drill rods by hand.

### Thread Compound

**Earth Pro Thread Compound** is factory coated on the box and pin ends of every Drillers Edge Rod and Casing. It's then protected with biodegradable plastic end caps to ensure it remains in place until used on the first make and break of the joint.

- Less friction for reduced galling
- Lowers torque requirements - proper makeup is achieved quickly with minimum torque
- Performs as an excellent sealant at pressures up to 20,000 psi
- Environmentally friendly



### TurboCut

**Earth Pro TurboCut** is a liquid lubricant specifically designed to be added directly to water based systems. No tripping to grease and re-grease rods.

Provides **constant lubrication** for rods and down hole tools to extend life, decrease torque and increase rate of penetration even when used in small concentrations.

## GREASES, LUBRICANTS & COMPOUNDS



### Nikal Thread Compound

**Nikal Thread Lube** is a premium quality anti-seize and gasket compound for use in extreme temperatures and hostile environments.

**Nikal Thread Lube** contains pure nickel flake and a nearly inert dispersing solid in a high quality aluminum complex base grease which provides **unsurpassed protection from rust** by water penetration or water wash off.



### Kopr-Kote

**Kopr-Kote** Drill Collar Compound and Tool Joint Compound is an unleaded, premium quality compound containing copper flake, graphite, rust and corrosion inhibitors, antioxidants, and other natural extreme pressure and anti-wear additives.

**Kopr-Kote** provides positive protection for **rotary shouldered connections under severe drilling conditions** where the probability of downhole make-up is anticipated. **Kopr-Kote** prevents high stress levels which shorten the useful life of drill string connections.

### Z-50

**Z-50** is the finest metallic zinc compound on the market today. It is specially formulated and tested to insure the best brushability and maximum protection under the widest temperature ranges.

**Z-50** has been test proven to significantly **reduce stresses within tool joints, compared to a typical zinc compound.**

### Linseed Soap

**Linseed Soap** is a **lubricating grease** made from a mixture of linseed oil, fatty soaps and surfactants. It is a semi-solid paste, brown in color.

**Linseed Soap** can be swabbed inside inner tubes, added to drill fluid through a suction hose applicator or flushed into holding tanks with a water spray. Immediate results will occur by increased core recovery and increased bit footage.

# DRILLING FLUIDS & ADDITIVES

## LOST CIRCULATION MATERIALS



### Prima-Seal

**Prima-Seal** is a lost circulation material designed to be **effective in combating all types of losses**. It is a formulated blend of granules (bridging agent), fibers (matting agent) and flakes (sealing agent), provided in three grind sizes (fine/medium/coarse).

Each size is designed for certain applications and situations and may be used by itself or in conjunction with other lost circulation additives.



### Sawdust

**Sawdust** is the most economical and readily available lost circulation material choice for mud engineers and is the preferred product for use as an absorbent and deck clean-up on drilling rigs.

**Sawdust** has no additives and is consistent high quality - pure wood product. It is **economical and environmentally friendly**.



### StopLoss

**Earth Pro StopLoss** is a polymer that will expand 300 times its volume in fresh water (50 times in salt water).

This remarkable property makes it an **excellent medium for plugging fissures and cracks** encountered in drilling operations preventing the further loss of drilling fluid.

## POLYMER ADDITIVES



### SynVis D

Earth Pro SynVis D is 100% active, dry granular polymer that disperses readily, resulting in easy mixing without lumps or fish eyes.

Earth Pro SynVis D is primarily used for viscosity in fresh water systems, gel and/or polymer based systems. Also functions as a lubricating agent, shale/clay encapsulator and flocculant.

Suitable for all environments, Earth Pro SynVis D is used in Horizontal Directional Drilling, Mineral Exploration, Water Well, Environmental and Oil & Gas Construction industries.

### SynVis L

Earth Pro SynVis L is a high yield, readily dispersible, anionic, liquid synthetic polymer formulation that can act alone or as part of a complete fluid solution for varied demanding drilling situations.

- Increases viscosity to provide hole cleaning and cutting transport
- Shear thinning polymer to reduce pumping pressure demands
- Maintains hole conditions in friable zones such as overburden, silts, sands and clays
- Superior lubricating qualities eliminating vibration while increasing core recovery

### MultiMix

Earth Pro MultiMix is a dry blend of specially engineered synthetic polymers designed to flexibly bond loose ground and improve wellbore stability in difficult drilling situations.

It is used to penetrate unconsolidated formations and then fully hydrate to form a sort of polymer glue holding formation in place allowing for drilling to proceed uninhibited.

# DRILLING FLUIDS & ADDITIVES

## POLYMER ADDITIVES



### ProPac D

**Earth Pro ProPac D** is a 100% active dry natural based polymer that is used to control fluid loss and enhance filter cakes. It can also be used as a high shear rate viscosity modifier or lubricant.

Common usage of **Earth Pro ProPac D** is in **Horizontal Directional Drilling, Mineral Exploration** and large **Bore Infrastructure** drilling. Offers optimal carrying capacity in deeper more challenging holes.



### CombiVis L

**Earth Pro CombiVis L** is a liquid suspension of various polymers utilized to cover a broad spectrum of drilling fluid requirements including viscosity, fluid loss control, encapsulation and lubrication.

This product is stable in a wide variety of water chemistries including high and low pH and increased salinity. **Earth Pro CombiVis L** allows for markedly reduced addition mixing time over dry product in this highly dispersible liquid format.



### HydraVis D

**Earth Pro HydraVis D** is a naturally derived polymer utilized to **enhance hole cleaning** and **cuttings transport** in both salt and fresh water environments.

**Earth Pro HydraVis D** is a concentrated product that yields 8-10 times more volume per pound when compared to bentonite making **Earth Pro HydraVis D** a suitable choice for remote site work where transport is costly and facilities are limited.

## POLYMER ADDITIVES



### HydraVis L

Earth Pro HydraVis L is a **liquid suspension of natural polymer** and is used for viscosifying in fresh, brackish and/or salt water. It is best suited where dry polymers can not be dispersed and hydrated easily.

Earth Pro HydraVis L is generally used as a viscosifier but can also be used as a low shear rate viscosity modifier or lubricant.



### SaltVis L

Earth Pro SaltVis L is a liquid emulsion synthetic polymer that is specifically designed to **hydrate to its maximum ability** in salt, brackish or any raised salinity source water.

- Superior shelf life - does not separate like other polymer suspensions
- Easily mixed in liquid form
- Requires minimum amounts of shear to fully hydrate
- Reduces footprint when compared to alternatives like organophilic clays
- Greatly increases the speed and overall yield when compared to liquid guar suspensions

## SPECIALTY PRODUCTS



### Claymean L

Earth Pro Claymean L is a drilling fluid additive (organic liquid amine) that is used for **chemical inhibition of water sensitive clay and shale formations**. Used in air rotary drilling (all disciplines) and underground tunneling.

Low chlorides within Earth Pro Claymean L, alternate to KCl or Salt Brines for the prevention of hydration of clays and shale encountered while drilling.

# DRILLING FLUIDS & ADDITIVES

## SPECIALTY PRODUCTS



### RockBond

Earth Pro RockBond can be thought of as **powdered pavement for unstable wellbores**, suitable to use in all water based drilling fluid systems.

Earth Pro RockBond is a treated blend of very fine ground natural occurring high melting point hydrocarbon resins. It is used to control sloughing formation by plugging the micro-fractures in the bedding planes.



### TurboCut

Earth Pro TurboCut is a liquid lubricant specifically designed to be added directly to water based systems. No tripping to grease and re-grease rods.

Provides **constant lubrication** for rods and down hole tools to extend life, decrease torque and increase rate of penetration even when used in small concentrations.

## THINNERS / DISPERSANTS



### Claysperse L

Earth Pro Claysperse L is a cationic liquid dispersant and thinner for water based drilling fluids. It is primarily used for **deflocculation of drill solids** and as a **bentonite thinner**. It can also be used as a filter cake enhancer. It is best suited for fresh water systems with mud weight below 1200 kg/m<sup>3</sup>.

- Reduces viscosity in drilling fluid
- Can be utilized for wellbore cleanup prior to production
- Used to treat some contaminants in bentonite slurries

## WASTE TREATMENT



### Mud Terminator

Eliminate the high cost and difficulty of disposing drilling fluids with **Earth Pro Mud Terminator**. It consists of a proprietary blend of super absorbent polymers and minerals.

The material is non-hazardous, chemically inert (won't react with anything), non-dusty and absorbs very quickly.

**Earth Pro Mud Terminator** is utilized in liquid mud, industrial sludge or in drill cuttings waste expelled by solids control equipment to **absorb free liquid** allowing for the disposal of these products at standard landfills as solid waste.

## WEIGHTING MATERIALS



### Barite

**Barite** is a weighting material possessing a specific gravity ranging from 4.2 to 4.3. It is **used in all muds to increase the density or weight**.

Barite is a non-soluble natural mineral that is non-abrasive to pumping equipment.



### Cal Carb 325

**Calcium Carbonate** ( $\text{CaCO}_3$ ) is a naturally occurring, ground limestone. As **Calcium Carbonate 325** grind, this finer grade of calcium carbonate is used primarily as weighting materials.

**Cal Carb 325** can effectively raise the density of a drilling fluid to a maximum of  $1600\text{kg/m}^3$ .

# CORE RETRIEVAL TOOLS

Di-Corp offers a wide range of **Core Retrieval Tools** that are designed to ensure maximum productivity and core retrieval in any ground condition. The tools are comprised of Drillers Edge Wireline Core Retrieval tools and the associated Drillers Edge Coring Accessories.

The Di-Corp Core Retrieval offering has been designed to be compatible with the industry leader's coring systems while offering enhanced functionality.

**Surface:** B Core Retrieval System, N Core Retrieval System, N2 Core Retrieval System, H Core Retrieval System, P Core Retrieval System

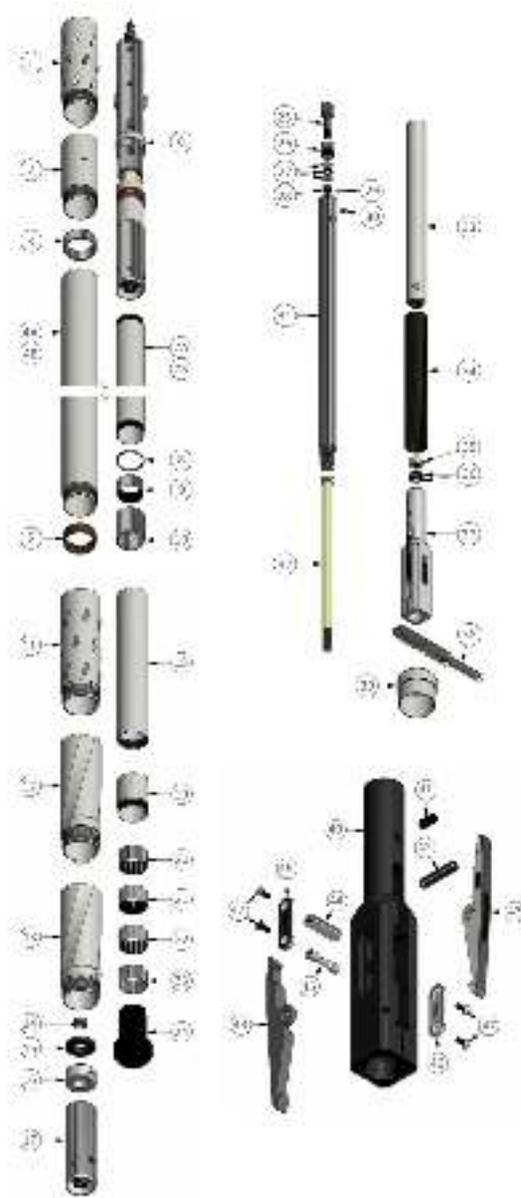
**Triple-Tube:** N3 Core Retrieval System, H3 Core Retrieval System

**Pump-In:** BU Core Retrieval System, NU Core Retrieval System, N2U Core Retrieval System, HU Core Retrieval System

**Thin Wall:** BTW Core Retrieval System, NTW Core Retrieval System

**Thin Wall Pump-In:** BTWU Core Retrieval System, NTWU Core Retrieval System

See the Di-Corp Core Retrieval Systems Catalogue for a full product breakdown of the Drillers Edge Wireline Core Retrieval tools and the associated Drillers Edge Coring Accessories.



## VK Grout Plugs

These plugs are constructed of aluminum and rubber with a soft steel pipe in the center. This allows the grout plug to be drilled out. The **VK Grout Plug** can be adapted to drill rods by a left hand pipe thread which allows them to be removed after cementing. The built-in check valve seals pressure in the hole, which makes it ideal for grouting.

### Components:

- Left or right hand pipe thread
- Wedges
- Rubber seal
- Aluminum tube
- Plastic check ball



## Van Ruth Plugs

**Van Ruth Cementing and Wedging (CW) Plugs** are used for wedging in off bottom situations like branch holes. They are most effective as bridge plugs for spot cementing sections of holes and prevent dilution of cement by drilling fluids.

### Construction:

- Drill-able aluminum and rubber
- Also available in non-spark material



## Displacement Plugs

**Displacement Plugs** are used in diamond drilling, wireline drill rods and casing for placing cement plugs or casing pack fluid. The plugs are made of natural rubber and are designed to allow positive placement of a casing pack in the casing annulus or a column of cement grout in the hole without dilution by the drilling fluid while pumping.

**Displacement Plugs** are disposable - it is drilled out after the casing pack or cement slurry is pumped into position.

The main applications are:

- Placing casing pack
- Plugging back with cement
- Grouting



## Safety Plugs

**Safety Plugs** are solid centered expandable plugs designed for hole abandonment and water control. Primarily used in underground applications, the plug is used at the collar of the drill hole.



## Margo Plugs

A mechanical type hollow stem plug, it comes in all standard sizes and lengths.

The **Margo Plug** comes with 4 sturdy rubber sleeves. It is mainly used to seal off underground drill holes or pump grout through.



# DIAMOND TOOLS

## Diamond Impregnated Bits

Di-Corp works in partnership with you to develop a bit that meets your drilling requirements.

Our matrices are designed to cover a wide range of ground conditions:

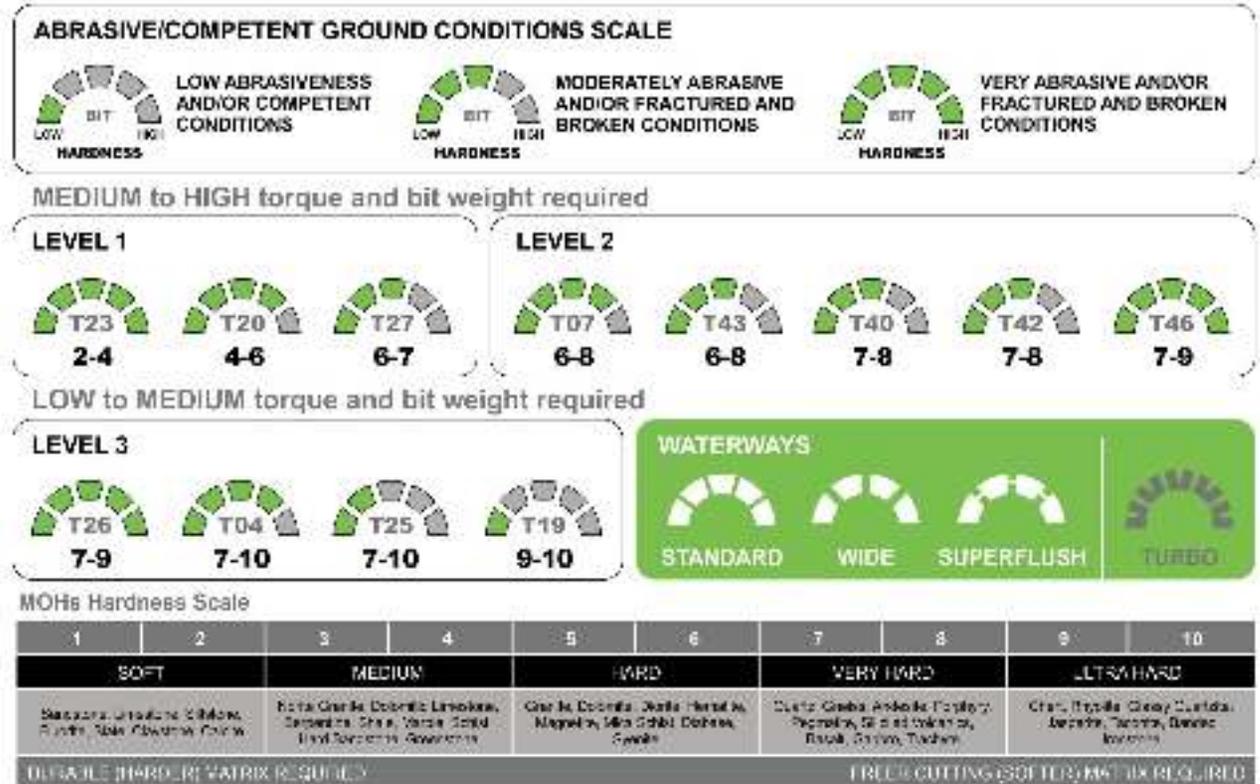
- Soft to ultra hard formations (MOHs 1 to 10)
- Abrasive or non abrasive
- Competent or fractured and broken

Every component of the matrix is given careful consideration to achieve maximum performance and life:

- Diamond type, size and concentration
- Metals and hard materials
- Additives to accelerate wear

Each unique combination of these components form the matrix type (T#) and enables the bit to withstand the demands of the driller and the drill, including high penetration, load and torque.

**Diamond Impregnated Bits** are available in B, BTW, BTK, N, N2, N3, NTW, H, H3, P and P3. For more information please see the Diamond Impregnated Bits Catalogue.



We also carry Surface Set, Carbide, PCD and Tricone Bits

## Carbonado Bits

Di-Corp manufactures a line of bits commonly referred to as **Carbonado's**. They are very similar to surface set bits but use carbonado diamonds which are considerably tougher and more wear resistant than the natural diamonds used in conventional surface set bits. As a result, the **Carbonado Bits** perform better in harder, more abrasive formations, and offer excellent core recovery in broken ground conditions.

Available in N, H and P. For more information please see the Diamond Impregnated Bits Catalogue.

## Rod Shoes

Di-Corp offers two versions of **Rod Shoes** to be used with drill rod if used to case a hole. Level 1 (T11) is a general purpose **Rod Shoe** suited for most drilling conditions through overburden. Level 2 (T12) is a premium shoe for more difficult overburden drilling conditions for improved life with increased diamond concentration, extended impregnation depth and gauge setting.

Available in N, H and P. For more information please see the Diamond Impregnated Bits Catalogue.

## Casing Bits

Di-Corp offers a premium **Casing Bit** set to bit gauge. It is best suited for more difficult overburden drilling conditions including boulders. It offers increased life with increased diamond concentration and extended impregnation depth.

Available in B, N, H and P. For more information please see the Diamond Impregnated Bits Catalogue.

## Reaming Shells

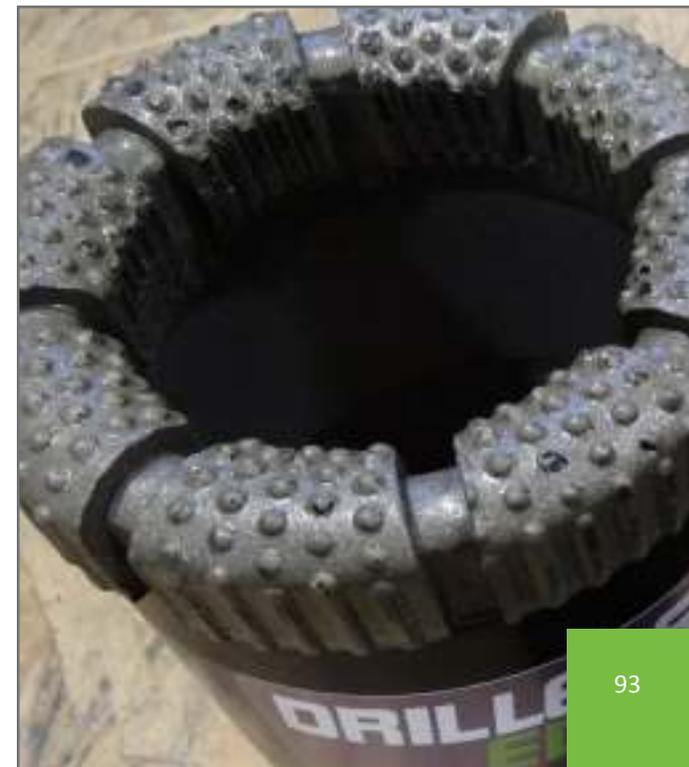
Di-Corp offers high quality **Reaming Shells** to help assist with hole deviation and prevent premature wear of drilling tools due to vibration. It is set with natural diamonds in a wear resistant matrix which is reinforced on the leading edge with carbide wear strips to minimize erosion for longer life.

Available in B, N, H and P. For more information please see the Diamond Impregnated Bits Catalogue.

## Casing Shoes

Di-Corp offers two versions of **Casing Shoes** - Level 1 (T11) and Level 2 (T12). The Level 1 (T11) is a general purpose casing shoe suited for most drilling conditions through overburden (no boulders) and the Level 2 (T12) is a premium shoe for more difficult overburden drilling conditions which offers increased life with increased diamond concentration, extended impregnation depth and gauge setting.

Available in B, N, H and P. For more information please see the Diamond Impregnated Bits Catalogue.



# DRILL RODS, ADAPTOR SUBS & CASING

## Drill Rods

Di-Corp offers the industry's highest quality **Drill Rod**. Threads are precision machined on heat treated alloy steel tubing, produced to the Di-Corp tubing specification, ensuring a tough, strong, straight, concentric product. Our Drill Rods are produced in a brand new state-of-the-art manufacturing facility.

The Di-Corp Drill Rod offering includes the industry standard 'WL' thread design as well as our patented 'D' and 'WT' thread design. All of our Drill Rods are manufactured to our own accurate designs ensuring a quality joint fit as well as compatibility with existing industry product.

Deep Hole Wireline Drill Rod available in ND, HD and PD. LITE Wireline Drill Rod available in ND, NWL, HD and HWL. Standard Wireline Drill Rod available in BWL, NWL, and HWL. For more information please see the Drill Rods & Casing Catalogue.

## Wire Line Casing

The Di-Corp **Wire Line Casing** offering includes the industry standard 'W' design in all sizes as well as the commonly used 'WT' design used in the larger diameter product. Carbon steel tubing, produced to the Di-Corp tubing specification ensures a tough, strong, straight, concentric product. All Casing is precision machined to an industry ISO standard ensuring a quality joint fit as well as compatibility with existing industry product.

Casing available in BW, NW, HW, HWT, PW and PWT. For more information please see the Drill Rods & Casing Catalogue.

## Adaptor Subs

Di-Corp stocks the most commonly used **Adaptor Subs** used in the Exploration Drilling industry. All other sizes and configurations are available upon request. Adaptor subs pass through a Quality Control process prior to being released to the market as a finished product. Available in B, N, H and P. For more information please see the Drill Rods & Casing Catalogue.





## isCompass

The **isCompass** is a magnetic multishot instrument for borehole surveying based on modern MEMS technology. It is fully integrated in its own brass running gear, requiring little set-up in the field.

Wireless in operation, the tool utilizes infrared communication with a rugged handheld field computer. **isCompass** is powered by standard C battery cells and will operate for more than 100 hours on seven batteries, which can be changed by the operator. Data is transferred from the handheld control unit to another computer using a standard USB memory.



## isGyro

The **isGyro** is a user-friendly borehole survey tool that offers you high accuracy in mining and geotechnical applications. Download and processing times are fast and the tool can survey for up to 16 hours on a single battery charge.

No special pre-survey or post-survey procedures are necessary to get into the hole. The simple set-up saves valuable site-time and potential sources of human error are significantly reduced.

The modular design of the tool minimizes repair times and cost.



## isSlimGyro

The **isSlimGyro** is the world's smallest rate gyro survey instrument. With a diameter of only 21.56 mm and a running gear diameter of 26 mm, it offers high accuracy in even the tightest holes.

With an amazingly low power consumption of 0.2 W the **isSlimGyro** can survey for up to 75 hours on a single battery charge. No special pre-survey or post-survey procedures are necessary to get into the hole.

The simple set-up saves valuable site-time and potential sources of human error are significantly reduced. The modular design of the **isSlimGyro** minimizes repair times and cost.

# INERTIAL SENSING



## ADW600 Survey Winch

The **ADW600 Survey Winch** is a compact borehole winch. It is designed for 600 m of 1/8"-wire rope.

The main components are:

- Helicoidal spindle for automatic laying of cable on drum
- Electronic depth encoder with display
- Frequency controlled asynchronous electric motor (0.75 kW)
- Electric motor brake that keeps the wireline absolutely still at stations
- 600 m of stainless steel wire rope



## Inline Centralizers

Centralizers are required for vertical surveys to prevent the tool from spinning. The design of **Inline Centralizers** prevents the tool from blocking when surveying open holes as the blades can deform to a minimum diameter of 38 mm.

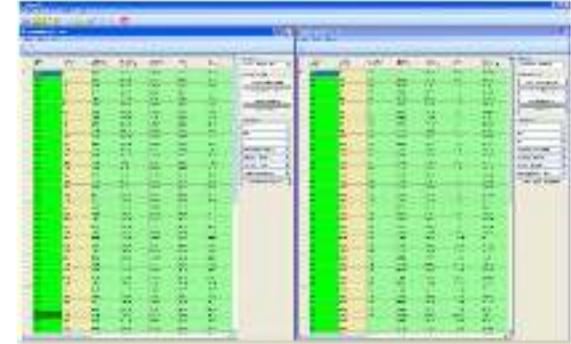
**Inline Centralizers** are designed for the isRG38 running gear. They come with a PVC-tube for transportation and storage. The standard kit consists of 2 centralizer bodies with shaft and sliding end, bow springs for borehole diameter 3", 4" and 5" (8 each), 19 mm spanner and a plastic tube to assist mounting of spring blades.



## ISRG38 Running Gear Kit

Di-Corp offers a 38 mm **Running Gear** especially designed for the isGyro which is compatible with surveying accessories.

The isGyro 38 mm Gyro **Running Gear Kit** comes in a Peli Case 1750 and consists of a pressure barrel, a top plug with tool hanger, a bottom plug with shock absorber, swivel, anti-roll bar, 3 v-blocks, and 30 mm spanners.



## Sighting Device Kit

A **Sighting Device** is required for vertical surveys to align with a known reference direction. The Polymetra sighting device for the isGyro is stored in a Peli Case 1400.

It consists of a rifle scope mounted on a special bracket holding 3 spirit levels, clamp (can be attached to any spanner face of the running gear) and locking plate.

For surveys in underground mines and tunnels, a sighting device with two laser beams is available.

## Tripod

Polymetra's lightweight **Tripod** allows a single operator to execute a survey in vertical a borehole when the drill rig has already left.

The kit consists of a detachable pulley, telescopic legs, adjustable ties and 3 ground anchors.

## isAnalysis Software

Further analysis and data processing can be conducted using the **isAnalysis Software** supplied with isCompass and isGyro.

**isAnalysis Software** allows users to visualize, edit, correct, group and export their survey data. It can also import data from other surveying tools, Excel spreadsheets or text files. This allows easy addition of data from other tools and reference data to create a single exported spreadsheet.

## Kleer-Kore Tubes

**Kleer-Kore Tubes** are rugged, resilient, transparent PVC tubes designed to allow accurate, visual insitu inspection of soft, stick or broken core. **Kleer-Kore Tubes** can be capped immediately to preserve moisture and allows transportation to your laboratories without disturbance and damage.

**Kleer-Kore Tubes** eliminate the need for costly triple-tube stainless steel liners and considerably reduces wear and damage to inner tubes. **Kleer-Kore Tubes** are ideal for use with potentially hazardous core as truly hands-off inspection is possible. The close tolerance dimensions of **Kleer-Kore Tubes** makes handling sheer simple.

Kleer-Kore Tube Sizes		
Product #	Length	Description
30682	5'	H3 Kleer-Kore Tube
30683	5'	N3 Kleer-Kore Tube
39595	5'	P3 Kleer-Kore Tube
39163	10'	N3 Kleer-Kore Tube
39214	10'	H3 Kleer-Kore Tube
39631	10'	P3 Kleer-Kore Tube

Kleer-Kore Tube Accessories	
Product #	Description
30685	N3 Kleer-Kore End Cap
30684	H3 Kleer-Kore End Cap
39596	P3 Kleer-Kore End Cap
39570	Kleer-Kore Tube Box 5'
39751	Kleer-Kore Tube Box Insert





## MINERAL PROCESSING PRODUCTS

We know the process behind mineral processing and we have the knowledge to offer skilled product and supply suggestions to ensure your project is a success. Our mineral processing experts have a track record for providing innovative solutions to even your most arduous processing issues.



## FLOTATION PRODUCTS



### Guar Gum HP 4501P

**Guar Gum HP 4501P** is used as a depressant where there is froth flotation and is specially blended for easy mixing.

Best suited for potash floatation, **Guar Gum HP 4501P depresses clays and slimes** providing viscosity in fresh or brine water.



### Depramin 96 & C

**Depramin 96 & Depramin C** are specifically engineered to **counter the contaminating effects of naturally floating gangue minerals.**

**Depramin 96 & C** selectively adsorbs onto the surfaces of the hydrophobic gangue minerals reducing their tendency to float in froth flotation processes.



## OIL SANDS CORING PRODUCTS

For our customers the ability to access all of the products they will require in one place means time and money are saved while completing their Oil Sands Coring projects. Di-Corp's attention to detail, vast product line and extremely knowledgeable team allows us to stand out from all competitors.

## BENTONITE PRODUCTS



### Wyoming Gel

**Earth Pro Wyoming Gel** is used for viscosity and filtration control in fresh water mud systems. In muds with a salinity of 3500 mg/L or higher the bentonite must first be prehydrated in fresh water.

**Earth Pro Wyoming Gel** conforms to the following API specifications (API Spec 13A, Section 4 Fourteenth Ed. Aug. 1991). Suspension of 22.5 grams in 350 ml of distilled water.

### Hydrogel

For use in drilling operations where **premium grade Wyoming Bentonite** is desired. **Hydrogel** is a preferred product for use in oil and gas exploration drilling where API 13A Section 9 material is required. It is also used in slurry trenching, caisson boring, and cast-in-place concrete foundations. **Hydrogel** is NSF Certified to NSF/ANSI 60.



### Naturalgel

**Naturalgel** has the unusual property of expanding several times its original volume when placed in water. The result is **higher fluid viscosity, gel strength, and solids suspending ability**.



High bentonite concentrations tend to improve fluid loss control; however the compromise is higher cement permeability and lower compressive strength. **Naturalgel** can also be used as an extender at elevated temperatures.

### Extra High Yield Bentonite

**Extra High Yield Bentonite** has a higher performance formula that makes it very effective. This premium grade beneficiated Wyoming Bentonite is designed for use in **mineral exploration, water well** and **directional drilling** operations.



It is an efficient viscosifier that performs well in a variety of water qualities. It successfully reduces application rates, and mixes easily / quickly. **Extra High Yield Bentonite** is listed with the National Sanitation Foundation for use in potable water well construction. It is a 220-235 bbl yield product.

### CoreMix Green

**Earth Pro CoreMix Green** is the only one sack blend that passes G-50 regulations for disposal and metals content with levels below the recommended concentration for use.

Designed for drilling & coring where there are bitumen-bearing formations that result in sticking bitumen, loose unconsolidated formations, reactive clay overburdens, and poor core recovery rate.

## CEMENTS & GROUTS



### Enviroplug Tablets

Enviroplug Tablets (Coated & Uncoated) are manufactured for use in **piezometer holes, monitor wells** and **other sealing and plugging applications**.

Enviroplug Tablets swell in water to more than 10 times their original volume.

Coated EnviroPlug Tablets make a high density, low permeability seal between sand packs and high solids bentonite grouts, and isolate screen sections in **multi-completion wells**.



### Enviroplug

Enviroplug Medium & Coarse are pure Wyoming Bentonites, designed for use as sealants for **hole abandonment, casing seals** or **any vertical seal to prevent water movement** up or down a bore hole.



When absorbing water, it swells to fill voids, exerting pressure against all surfaces to create a flexible low permeability seal.

Since **Enviroplug** is introduced in a dry state, shrinkage cannot occur and there is a reserve expansion capacity. Generally hydration takes 1 to 2 hours.



### Enviroplug Grout

Enviroplug Grout is a patented formula bentonite product designed to be used as a **water well grouting fluid, drill hole abandonment fluid, grout for geotechnical monitoring wells after casing placement, and other geotechnical construction applications** requiring non-destructible sub-grade seals.



Once in place, **Enviroplug Grout** begins to set and assumes a caulk-like consistency that contacts formations to establish a low permeability seal (1 X 10<sup>-9</sup> cm/sec).

## CEMENTS & GROUTS



### Grout-Well & Grout-Well DF

**Grout-Well and Grout-Well DF** are one step bentonite grouting materials designed to **achieve low permeability seals in water wells, monitor wells, geotechnical borings, and heat pump holes.**



**Grout-Well and Grout-Well DF** achieve a range of solids contents, 17% to 20% solids by weight. **Grout-Well DF's** granular nature reduces dusty conditions during mixing operations.

### Oilwell 'G' Cement

**Earth Pro Oilwell 'G' Cement** is manufactured according to very strict API (American Petroleum Institute) guidelines with respect to setting time, compressive strength, free water content, and other physical and chemical factors, to assure a consistent product suited for the high demands of the oil industry. Typically this cement is **used where wellbore temperatures do not exceed 100°C BHST.**



### Portland Cement

**Portland Cement** is a high quality, cost-effective basic cement used in **Mineral Exploration, Geotechnical & Environmental, HDD, Oil Sands Coring** and **Water Well** drilling applications.

**Portland Cement** meets or exceeds all applicable chemical and physical requirements of ASTM C 150 and CSA A3000-03 (formerly A5-98).

**Portland Cement** can be used where early strength is required as well as in applications requiring moderately low levels of heat generation during the hydration process.

### Thermal 40 Cement

**Earth Pro Thermal 40 Cement** is **typically used where wellbore temperatures exceed 115°C**, due to well depth, or physical treatment (i.e. steam flooding).

Under extreme temperatures, Class G cement undergoes severe and detrimental chemical structure changes causing a rapid breakdown of cement integrity, resulting in a loss in compressive strength and substantial increases in permeability.

Available bagged or in bulk.

## GENERAL CHEMICALS



### pH Up Soda Ash

Sodium Carbonate anhydrous commonly known as Soda Ash, is a chemical compound used widely in the drilling industry as a water based mud conditioner and contaminant treatment additive.

**Earth Pro pH Up Soda Ash** is used to precipitate calcium in make up water, which **softens the water and elevates the water's pH level** prior to mixing mud additives. This is desirable since bentonite and some polymers provide better yield in soft, slightly alkaline water.



### pH Down Citric

**Earth Pro pH Down Citric** can be added to any water based system where it is desired to lower the pH.

Regional disposal regulations sometimes mandate that the fluid being disposed of must be at a certain pH. This product works to **adjust pH levels**.



### Calcium Nitrate

**Calcium Nitrate** is a readily soluble source of calcium that can be utilized as a **coagulant in a clear water drilling system**.

In certain systems and at certain concentrations this product can also function as a clay and shale inhibitor.

## GENERAL CHEMICALS



### Chem Clean Green

Earth Pro Chem Clean Green is the preferred **cleaner for grease and grime**.

This concentrated, hard-working degreaser goes to work right away, emulsifying and deodorizing. Its grease-fighting solvents and emulsifiers work great on heavy-duty cleaning tasks. It can also be diluted for light-duty cleaning tasks.

- Removes oil and grease in many cleaning applications
- Biodegradable and cost-effective
- Contains no petroleum distillates



### Calcium Chloride 94-97%

**Calcium Chloride (94-97%)** is a basic manufactured salt, which is hygroscopic and highly soluble in water.

**Calcium Chloride (94-97%)** has a wide variety of uses:

- Freeze point suppression for water
- Material for increasing density
- Ice melter
- Dust controller



### Sodium Bicarbonate

**Sodium Bicarbonate** is commonly known as Bi-Carb, Baking Soda or Bicarbonate of Soda.

**Sodium Bicarbonate** is most commonly used for **treating cement contamination** by precipitating the calcium as calcium carbonate and reducing the pH.

## GREASES, LUBRICANTS & COMPOUNDS



### TurboCut

**Earth Pro TurboCut** is a liquid lubricant specifically designed to be added directly to water based systems. No tripping to grease and re-grease rods.

Provides **constant lubrication** for rods and down hole tools to extend life, decrease torque and increase rate of penetration even when used in small concentrations.



### Thread Compound

**Earth Pro Thread Compound** is factory coated on the box and pin ends of every Drillers Edge Rod and Casing. It's then protected with biodegradable plastic end caps to ensure it remains in place until used on the first make and break of the joint.

- Less friction for reduced galling
- Lowers torque requirements - proper makeup is achieved quickly with minimum torque
- Performs as an excellent sealant at pressures up to 20,000 psi
- Environmentally friendly



### Kopr-Kote

**Kopr-Kote** Drill Collar Compound and Tool Joint Compound is an unleaded, premium quality compound containing copper flake, graphite, rust and corrosion inhibitors, antioxidants, and other natural extreme pressure and anti-wear additives.

**Kopr-Kote** provides positive protection for **rotary shouldered connections under severe drilling conditions** where the probability of downhole make-up is anticipated. **Kopr-Kote** prevents high stress levels which shorten the useful life of drill string connections.

# DRILLING FLUIDS & ADDITIVES

## GREASES, LUBRICANTS AND COMPOUNDS



### Nikal Thread Compound

**Nikal Thread Lube** is a premium quality anti-seize and gasket compound for use in extreme temperatures and hostile environments.

**Nikal Thread Lube** contains pure nickel flake and a nearly inert dispersing solid in a high quality aluminum complex base grease which provides **unsurpassed protection from rust** by water penetration or water wash off.

### Eco-Safe

**Eco-Safe** nonmetallic thread compound is a premium quality product containing carbon based fibers and additives and other natural extreme pressure and anti-wear additives.

These are blended into a high temperature calcium complex base grease. This new base grease offers the additional advantage of **superior adhesion to wet steel surfaces, resistance to water wash-off, and resistance to most drilling muds**. It is especially effective for invert or high-pH muds.

### Well-Guard

**Well-Guard** is a high performance thread compound specifically designed for critical monitor well and other environmentally sensitive drilling applications requiring the use of a petroleum hydrocarbon-free product.

**Well-Guard** is formulated from a synergistic blend of synthetic fluids and non metallic, inorganic, EPO and anti wear additives. It provides maximum **protection against galling, seizing, and damage to threads** while maintaining monitor well integrity.

### Jet-Lube 21

**Jet-Lube 21**, a double duty tool joint compound, has been formulated to provide a superior level of performance for today's oilfield market. Its lead-free formulation contains copper flake as the only metallic component, and is fortified by a unique blend of natural, inorganic extreme pressure and anti-wear additives.

Truly a **double duty tool joint compound**, it can be used throughout the entire drill string - 'from the swivel to the bit' - on tool joints, drill collars, and all subsurface tools in medium drilling conditions to depths of 10,000 feet.

## LOST CIRCULATION MATERIALS



### Cellophane

Clear multi-sized flakes of polycellulose, with an average size of 9.5 mm (3/8"). **Cellophane** is used as a **sealing agent supplement to other lost circulation material**.

**Cellophane** works with low and normal density slurries and has excellent bridging properties. It is non-toxic, biodegradable, chemically inert and environmentally safe. **Cellophane** does not affect the compressive strength of the material.



### Prima-Seal

**Prima-Seal** is a lost circulation material designed to be effective in combating all types of losses. It is a formulated blend of granules (bridging agent), fibers (matting agent) and flakes (sealing agent), provided in three grind sizes (fine/medium/coarse).

Each size is designed for certain applications and situations and may be used by itself or in conjunction with other lost circulation additives.



### Sawdust

**Sawdust** is the most economical and readily available lost circulation material choice for mud engineers and is the preferred product for use as an absorbent and deck clean-up on drilling rigs.

**Sawdust** has no additives and is consistent high quality - pure wood product. It is **economical and environmentally friendly**.

# DRILLING FLUIDS & ADDITIVES

## LOST CIRCULATION MATERIALS



### Cal Carb Poultry Grit

**Cal Carb Poultry Grit** is a large grind carbonate with a particle size larger than Cal Carb 0, Cal Carb 325, and Cal Carb Supercal - Glass Rock.

It can be used in combination with other sized carbonates to provide a wide spectrum of **bridging agents for drilling fluids**. Its acid solubility also makes it especially suitable as a weighting or bridging agent in completion/work over and stimulation operations.



### Magma Fiber

**Magma Fiber** is a specially formulated acid soluble, extrusion spun mineral fiber for lost circulation problems. It is 97.3% soluble in a 7.5% HCL acid.

It is a spun mineral fiber, which acts as a **plugging and bridging agent** to plug voids, fractures, and all types of permeable formations.



### StopLoss

**Earth Pro StopLoss** is a polymer that will expand 300 times its volume in fresh water (50 times in salt water).

This remarkable property makes it an **excellent medium for plugging fissures and cracks** encountered in drilling operations preventing the further loss of drilling fluid.

## POLYMER ADDITIVES



### MultiMix

Earth Pro MultiMix is a dry blend of specially engineered synthetic polymers designed to flexibly **bond loose ground** and **improve wellbore stability** in difficult drilling situations.

It is used to penetrate unconsolidated formations and then fully hydrate to form a sort of polymer glue holding formation in place allowing for drilling to proceed uninhibited.



### ProPac D

Earth Pro ProPac D is a 100% active dry natural based polymer that is used to control fluid loss and enhance filter cakes. It can also be used as a high shear rate viscosity modifier or lubricant.

Common usage of Earth Pro ProPac D is in **Horizontal Directional Drilling, Mineral Exploration** and large **Bore Infrastructure** drilling. Offers optimal carrying capacity in deeper more challenging holes.

### Poly-Xan

Earth Pro Poly-Xan a high molecular weight biopolymer of Xanthan Gum. It is used primarily as a viscosifier in fresh water, seawater or saline muds. It also provides a measure of filtration control.

Earth Pro Poly-Xan is designed to provide **viscosity on shallow and medium depth wells** where economics demand high performance at a reasonable cost.

### CoreMix Green

Earth Pro HydraVis D is a naturally derived polymer utilized to **enhance hole cleaning** and **cuttings transport** in both salt and fresh water environments.

Earth Pro HydraVis D is a concentrated product that yields 8-10 times more volume pound for pound when compared to bentonite making Earth Pro HydraVis D a suitable choice for remote site work where transport is costly and facilities are limited.

# DRILLING FLUIDS & ADDITIVES

## POLYMER ADDITIVES



### Staflo

**Staflo** is a low molecular weight, polyanionic cellulose polymer of high purity. It is available in Regular and Exlo Supreme grades and is a primary **fluid-loss reducer for water-based drilling fluids**.

**Staflo Regular** also provides secondary viscosity. When fluid loss control without additional viscosity is required, **Staflo Exlo Supreme** should be used.

## SPECIALTY PRODUCTS



### Claymean L

**Earth Pro Claymean L** is a drilling fluid additive (organic liquid amine) that is used for **chemical inhibition of water sensitive clay and shale formations**. Used in air rotary drilling (all disciplines) and underground tunneling.

Low chlorides within **Earth Pro Claymean L**, alternate to KCl or Salt Brines for the prevention of hydration of clays and shale encountered while drilling.

## THINNERS / DISPERSANTS



### Claysperse L

**Earth Pro Claysperse L** is a cationic liquid dispersant and thinner for water based drilling fluids. It is primarily used for **deflocculation of drill solids** and as a **bentonite thinner**. It can also be used as a filter cake enhancer. It is best suited for fresh water systems with mud weight below 1200 kg/m<sup>3</sup>.

- Reduces viscosity in drilling fluid
- Can be utilized for wellbore cleanup prior to production
- Used to treat some contaminants in bentonite slurries

## THINNERS / DISPERSANTS



### Drilling Detergent L

**Earth Pro Drilling Detergent L** is an anionic, liquid, surface wetting agent. It is added to water based mud systems to **reduce surface tension**.

- Promotes solids setting and reduces pump pressure
- Increased penetration rates
- Reduced hole friction and torque
- Reduced wear on surface mud system expendables
- Increased bit life



### CF Desco II

**CF Desco II** is used to control rheological properties in water based drilling fluids. **CF Desco II** is an **alkaline material**, which is effective in a wide pH range (optimum is suggested at 9.0-11.0) in fresh water and salt-water muds.

**CF Desco II** is highly effective at low concentrations and is compatible with all other mud additives. It scavenges oxygen from the mud system, which assists in **reducing corrosion** and in **extending the thermal stability of mud systems**.

### Di-Sperse 72L

**Earth Pro Di-Sperse 72L** is effective at any pH and due to its rapid dissolution, it immediately affects the flow properties of a drilling fluid.

Its primary function is to act as a **flow control agent by reducing viscosity and gel strengths** in conventional and low solids water based drilling fluids.

### TKPP

**TKPP** is an alternative to SAPP and Earth Pro Drilling Detergent L. This product is a concentrated dispersant that acts to **prevent clay from building up** and **sticking to tooling and rods**.

It may be added to any water based system either directly to the entire mud system or in concentrated form by adding directly to tool joints on connections and pumped as a sweep.

# DRILLING FLUIDS & ADDITIVES

## THINNERS / DISPERSANTS



### Soap Stick FS-16

The main application of **Soap Stick FS-16** is for the **reduction of mud rings, bit balling and cake build-up on drill strings.**

**Soap Stick FS-16** is most effective by dropping them down the drill pipe on connections as needed. It will start dissolving immediately on contact with the water in the pipe. The dissolution rate will vary.



### Humalite (Lignite)

**Humalite** is a naturally oxidized coal-like material similar to Leonardite (Lignite) but has a much higher humified organic matter content and significantly lower residuals.

**Humalite** is used in water-based muds as a **thinner (dispersant)**, and a **secondary filtration control agent**. It is a more stable thinner and filtration control additive at high temperatures than are the lignosulfonates.

## WEIGHTING MATERIALS

### Barite

**Barite** is a weighting material possessing a specific gravity ranging from 4.2 to 4.3. It is **used in all muds to increase the density or weight.**

Barite is a non-soluble natural mineral that is non-abrasive to pumping equipment.

### Cal Carb 325

**Calcium Carbonate** ( $\text{CaCO}_3$ ) is a naturally occurring, ground limestone. As **Calcium Carbonate 325** grind, this finer grade of calcium carbonate is used primarily as weighting materials.

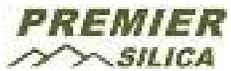
**Cal Carb 325** can effectively raise the density of a drilling fluid to a maximum of  $1600\text{kg/m}^3$ .

## Oil Sands Coring Sand

### Western Canada



Product #	Type	Packaging
49664	Filter Sand 4/10	25 KG
47252	Silica Sand 10/20	50 LB
27071	Silica Sand 20/40	50 LB



Product #	Type	Packaging
47366	Silica Sand 6/9	50 LB
31204	Silica Sand 10/20	50 LB
49012	Silica Sand 12/20	50 LB
47255	Silica Sand 20/40	50 LB

### Eastern Canada

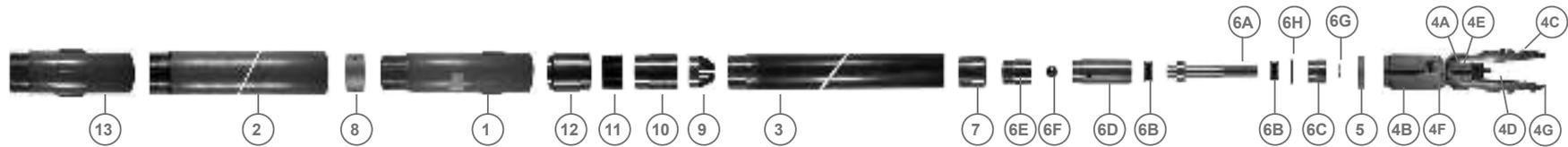


Product #	Type	Packaging
27071	Silica Sand 20/40	50 LB



# CORE RETRIEVAL TOOLS

## ADT 4<sup>5</sup>/<sub>8</sub>" Wireline Core Barrel



		Part Number	Weight (lbs)	Weight (kg)
<b>Spare Parts For Assembly</b>				
1	Locking Coupling Stabilized to 5.470	25-465-220	27.4	12.43
2	Outer Tube 5 ft (1.5m)	25-637-307	64	29.03
2	Outer Tube 10 ft (3.0m)	25-637-059	117	53.07
3	Inner Tube 5 ft (1.5m)	25-058-017	33	14.97
3	Inner Tube 10 ft (3.0m)	25-058-025	67	30.39
3	Split Inner Tube 5 ft (1.5m)	25-207-044	33	14.97
3	Split Inner Tube 10 ft (3.0m)	25-207-051	67	30.39
4	Latch Head Assembly	25-237-116	22.6	10.25
4a	Headbase (Top)	25-385-105	5.9	2.68
4b	Headbase (Bottom)	25-385-097	11.1	5.03
4c	Spring, Red (Top)	06-014-906	0.38	0.17
4d	Spring, Gold (Bottom)	06-014-914	0.38	0.17
4e	Pins (4 required)	06-019-921	0.19	0.09
4f	Pin	06-099-196	0.5	0.23
4g	Quad Latch Fingers	25-356-148	5	2.27
5	Landing Shoulder Nut	25-430-125	1.8	0.82
6	Bearing Assembly	25-086-141	15.8	7.17
6a	Bearing Shaft	25-642-141	2.8	1.27
6b	Thrust Bearing (2 Required)	25-093-139	0.75	0.34
6c	Bearing Retainer	25-642-166	2.1	0.95
6d	Bearing Housing	25-161-050	4.2	1.91
6e	By-Pass Adapter	25-232-067	5.3	2.4
6f	By-Pass Ball	06-043-210	0.44	0.2
6g	O-Ring (Upper)	06-227-219	0.06	0.03
6h	O-Ring (Lower)	06-230-064	0.19	0.09
7	Inner Tube Connector	25-637-158	2	0.91
—	Split Inner Tube Connector (Not Shown)	25-637-067	2	0.91
8	Landing Shoulder Ring	25-429-176	1.3	0.59

		Part Number	Weight (lbs)	Weight (kg)
<b>Spare Parts For Assembly</b>				
9	Basket Catcher 3.00 Core	25-395-021	0.2	0.09
10	Upper Inner Tube Shoe 3.00 Core	25-637-091	1.5	0.68
11	Core Lifter Skirtless HF 3.00 Core	25-094-087	0.3	0.14
12	Lower Pilot Inner Tube Shoe 3.00 Core	25-100-116	2.2	1
13	Outer Tube Sub Stabilized to 5.470	25-637-075	18.4	8.35

		Part Number	Weight (lbs)	Weight (kg)
<b>Core Barrel Assembly</b>				
—	5 ft Complete (1.5m)	25-637-299	191	86.64
—	10 ft Complete (3.0m)	25-637-174	278	126.1
—	5 ft Complete (1.5m) Split Inner Tube	25-637-300	191	86.64
—	10 ft Complete (3.0m) Split Inner Tube	25-637-471	278	126.1
<b>Optional Equipment (Not Shown)</b>				
9	Basket Catcher 2.75 Core	25-395-013	0.2	0.09
10	Upper Inner Tube Shoe 2.75 Core	25-560-160	1.5	0.68
11	Core Lifter Skirtless HF 2.75 Core	29-707-179	0.3	0.14
12	Lower Pilot Inner Tube Shoe 2.75 Core	25-560-178	2.2	1
13	Inner Tube Assembly 5 ft (1.5m)	25-637-323	0.2	0.09
13	Inner Tube Assembly 10ft (3.0m)	25-637-190	1.5	0.68
14	Split Inner Tube Assembly 5 ft (1.5m)	25-637-324	0.3	0.14
14	Split Inner Tube Assembly 10 ft (3.0m)	25-637-562	2.2	1

American Diamond Tool conventional core barrels are a double tube system with heavy duty bearing supported shaft allowing for smooth trouble free operation. We also carry complete replacement parts, conventional core bits and PDC core bits.



## ADT 4 $\frac{5}{8}$ " Wireline Overshot



		Part Number	Weight (lbs)	Weight (kg)
<b>Overshot Assembly</b>				
15	Overshot Assembly	25-270-026	19.8	8.98
15a	Sleeve	25-549-031	3.8	1.72
15b	Socket Head Cap Screw (2 Req)	06-009-567	0.19	0.09
15c	Plunger	25-270-042	2	0.91
15d	Pawl	25-552-035	0.06	0.03
15e	Spring	25-553-033	0.19	0.09
15f	Retriever	25-270-034	13.8	6.26
15g	Capscrew	53142	0.12	0.05
15h	Overshot Cocking Tool	06-033-740	1.2	0.54

		Part Number	Weight (lbs)	Weight (kg)
<b>Optional Equipment (Not Shown)</b>				
16	Overshot Swivel Assembly	25-555-112	3.3	1.5
17	Wireline Extension Rod 18 in. (.46m)	27-012-485	10.2	4.63
17	Wireline Extension Rod 46 in. (1.17m)	25-555-079	26	11.79
18	Positive Latch Lowering Tool	25-361-023	3	1.36
19	Loading Funnel	25-364-035	6	2.72



# ACCESSORIES

## Mud Pump Parts

A **Mud Pump** is composed of many parts including mud pump liner, mud pump piston, modules, hydraulic seat pullers, and other parts.

Di-Corp offers a full line of parts for mud pumps including various styles of liners, repair kits, rods, pistons, rubber kits, seat gravel and valve gravel.

Duplex and Triplex **mud pump parts** are available for both Gardner Denver and Emsco Mud Pumps.

Parts available for...

- Gardner Denver 5 x 6 Duplex Mud Pump, Fluid-End Parts and Gear-End Parts
- Gardner Denver 5 x 8 Duplex Mud Pump
- Gardner Denver 5.5 x 8 Duplex Mud Pimp
- Gardner Denver 4 x 5 Duplex Mud Pump
- Gardner Denver 4.5 x 5 Duplex Mud Pump
- Gardner Denver PAH Duplex Mud Pump
- Emsco D-300 Duplex Mud Pump
- Emsco D-375 Duplex Mud Pump
- Emsco D-175 Duplex Mud Pump
- Emsco D-500 Duplex Mud Pump
- Emsco F-500 Triplex Mud Pump

\*Gardner Denver Gear-End parts have a 4 to 5 day lead time.

Gardner Denver 5 x 6 Duplex Mud Pump Parts	
Product #	Description
42007	Liners
42003	Liner Packaging
47224	Chrome Piston Rod
41828	Rod Packaging
42181	Piston API-3
42182	Piston Repair Kit
42392	Valve Gravel Rubber
42390	Seat Gravel

Gardner Denver 5.5 x 8 Duplex Mud Pump Parts	
Product #	Description
42006	Liners
42004	Liner Packaging
42187	API Piston Rod
41827	Rod Packaging
41958	Gasket Cylinder Head
42184	Piston API-1
42183	Piston Repair Kit
27025	Junk Ring (Thin)
27024	Junk Ring (Thick)
42391	Valve Gravel/Rubber Insert
41959	Gasket Valve Cover
42390	Seat Gravel
48783	Seat Standard
48782	Rubber Insert Standard Valve
27075	Valve Inserts
44382	Standard Poly Valve Insert
47371	Shear Pin (red)
47325	Shear Pin (blue)

## PCD Quadlatch Bits

**PCD Drill Bits** deliver premium performance and durability for a wide range of standard drilling applications within the Mineral Exploration, Geotechnical & Environmental and Oil Sands Coring industries.

These matrix- and steel-bodied bits incorporate the latest cutter technology, computational fluid dynamics (CFD), enhanced hydraulics, and various structure geometries to maximize ROP.

Available in:

- 5-3/4" x 2-3/4"
- 6-1/4" x 2-3/4"
- 6-1/8" x 2-3/4"
- 6-1/8" x 3"



## Sonic Splits & Split Caps

Di-Corp's manufactured **PVC Sonic Core Sample** tubes are made from PVC pipe which has been machine split down the center producing two exact halves. These split tubes give the drill contractor a very durable core sample container that will ensure the sample will make it to the lab safely and intact.



## Wooden Quad Box

A **Wooden Quad** box is used as a well protector. It sits on the ground by the well to prevent anything running over the well and damaging it. Di-Corp manufactures these boxes in a variety of sizes. Please contact us for more information or with specific size requests.

## Wooden Core Boxes

Di-Corp manufactured **Wooden Core Boxes** are more resistant to weather and will endure on site handling better than cardboard core boxes.

Our **Wooden Core Boxes** can be used over and over again; are easy to handle and to stack. We manufacture everything locally and we are able to accommodate any possible customized sizing and quantity. Contact us for more details or further size requirements.

Product #	Size	Description
39743	NQ	3 Row Wooden Core Box
39904	NQ	4 Row Wooden Core Box
39905	NQ	5 Row Wooden Core Box
47864	PQ3	Wooden Core Box
48938	HQ	Wooden Core Box





## TUNNELING PRODUCTS

Di-Corp offers supplies and support tailored to the Tunneling industry including, high quality drilling fluids designed to remove cuttings, stabilize formations and cool & lubricate cutting heads.

## BENTONITE PRODUCTS

### Extra High Yield Bentonite

Extra High Yield Bentonite has a higher performance formula that makes it very effective. This premium grade beneficiated Wyoming Bentonite is designed for use in **mineral exploration, water well** and **directional drilling** operations.



It is an efficient viscosifier that performs well in a variety of water qualities. It successfully reduces application rates, and mixes easily / quickly. **Extra High Yield Bentonite** is listed with the National Sanitation Foundation for use in potable water well construction. It is a 220-235 bbl yield product.

### Micro-Gel

**Micro-Gel** is a bentonite product designed and engineered for **micro-tunneling** and **tunneling applications**.

It is engineered to promote low fluid loss and increased lubricity, which translates to low jacking pressures. The integrity of the tunnel wall is maintained by the effect of the superior filter cake and gel strengths exhibited by a **Micro-Gel** fluid.

## FLOCCULANTS & COAGULANTS

### Magnafloc 430 / Zetag 7692

**Magnafloc 430 / Zetag 7692** is an effective cationic **flocculant used for clear water drilling and fluid clarification in closed systems**.

**Magnafloc 430 / Zetag 7692** is very effective in dewatering water-based systems, especially those that contain significant amounts of potassium salts, biopolymers, and PACs.

### AE 851

**Earth Pro AE 851** can be used as a **viscosifier, foam stabilizer**, and as a **flocculant** to promote water clarification when clear water drilling.

- Drilling fluid additive - viscosifier, foam stabilizer or flocculant
- Anionic water soluble polymer
- Can be used in gumbo shales
- Holes larger than 222 mm will require higher concentrations when used as a flocculant



### SynVis L

**Earth Pro SynVis L** is a high yield, readily dispersible, anionic, **liquid synthetic polymer** formulation that can act alone or as part of a complete fluid solution for varied demanding drilling situations.

- Increases viscosity to provide hole cleaning and cutting transport
- Shear thinning polymer to reduce pumping pressure demands
- Maintains hole conditions in friable zones such as overburden, silts, sands and clays

# DRILLING FLUIDS & ADDITIVES

## GENERAL CHEMICALS



### pH Up Soda Ash

Sodium Carbonate anhydrous commonly known as Soda Ash, is a chemical compound used widely in the drilling industry as a water based mud conditioner and contaminant treatment additive.

**Earth Pro pH Up Soda Ash** is used to precipitate calcium in make up water, which **softens the water and elevates the water's pH level** prior to mixing mud additives. This is desirable since bentonite and some polymers provide better yield in soft, slightly alkaline water.



### pH Down Citric

**Earth Pro pH Down Citric** can be added to any water based system where it is desired to lower the pH.

Regional disposal regulations sometimes mandate that the fluid being disposed of must be at a certain pH. This product works to **adjust pH levels**.



### Chem Clean Green

**Earth Pro Chem Clean Green** is the preferred **cleaner for grease and grime**.

This concentrated, hard-working degreaser goes to work right away, emulsifying and deodorizing. Its grease-fighting solvents and emulsifiers work great on heavy-duty cleaning tasks. It can also be diluted for light-duty cleaning tasks.

- Removes oil and grease in many cleaning applications
- Biodegradable and cost-effective
- Contains no petroleum distillates

## GREASES, LUBRICANTS & COMPOUNDS

## LOST CIRCULATION MATERIALS



### Kopr-Kote

**Kopr-Kote** Drill Collar Compound and Tool Joint Compound is an unleaded, premium quality compound containing copper flake, graphite, rust and corrosion inhibitors, antioxidants, and other natural extreme pressure and anti-wear additives.

**Kopr-Kote** provides positive protection for **rotary shouldered connections under severe drilling conditions** where the probability of downhole make-up is anticipated. **Kopr-Kote** prevents high stress levels which shorten the useful life of drill string connections.



### Eco-Safe

**Eco-Safe** nonmetallic thread compound is a premium quality product containing carbon based fibers and additives and other natural extreme pressure and anti-wear additives. These are blended into a high temperature calcium complex base grease.

**Eco-Safe** offers the additional advantage of **superior adhesion to wet steel surfaces, resistance to water wash-off, and resistance to most drilling muds**. It is especially effective for invert or high-pH muds.



### BioFoam

**Earth Pro BioFoam** is a **surfactant blend foam for drill cutting removal** in under balanced fluid systems. Used primarily as a drilling foam that carries cuttings to the surface, **Earth Pro BioFoam** can also be used as a dust suppressant and as a discharge auger coolant.

- Used in air rotary drilling (all disciplines) and underground tunneling
- Non-flammable, non-toxic
- Highly dispersible in water
- Biodegradable

# DRILLING FLUIDS & ADDITIVES

## LOST CIRCULATION MATERIALS



### Walnut

A lost circulation material of ground **Walnut** is available in three grades, fine, medium, and coarse; ranging in size from 100 mesh to 6 mesh.

Used as a **lost circulation material or bridging agent** due to its granular nature. **Walnut** is chemically inert and may be added to any mud system.

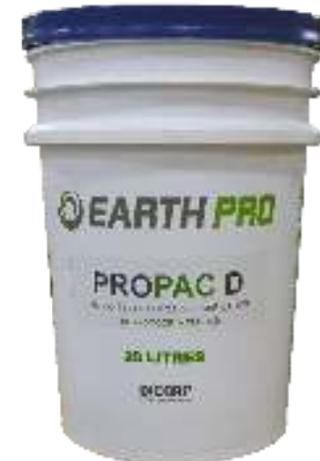


### Magma Fiber

**Magma Fiber** is a specially formulated acid soluble, extrusion spun mineral fiber for lost circulation problems. It is 97.3% soluble in a 7.5% HCL acid.

It is a spun mineral fiber, which acts as a **plugging and bridging agent** to plug voids, fractures, and all types of permeable formations.

## POLYMER ADDITIVES



### ProPac D

**Earth Pro ProPac D** is a 100% active dry natural based polymer that is used to control fluid loss and enhance filter cakes. It can also be used as a high shear rate viscosity modifier or lubricant.

Common usage of **Earth Pro ProPac D** is in **Horizontal Directional Drilling, Mineral Exploration** and large **Bore Infrastructure** drilling. Offers optimal carrying capacity in deeper more challenging holes.

## POLYMER ADDITIVES



### SynVis D

Earth Pro SynVis D is 100% active, dry granular polymer that disperses readily, resulting in easy mixing without lumps or fish eyes.

Earth Pro SynVis D is primarily used for viscosity in fresh water systems, gel and/or polymer based systems. It can also be used as a viscosified filtrate to increase ROP as well as a lubricant.

Suitable for all environments, Earth Pro SynVis D is used in Horizontal Directional Drilling, Mineral Exploration, Water Well, Environmental and Oil & Gas Construction industries.



### SynVis L

Earth Pro SynVis L is a high yield, readily dispersible, anionic, liquid synthetic polymer formulation that can act alone or as part of a complete fluid solution for varied demanding drilling situations.

- Increases viscosity to provide hole cleaning and cutting transport
- Shear thinning polymer to reduce pumping pressure demands
- Maintains hole conditions in friable zones such as overburden, silts, sands and clays
- Superior lubricating qualities eliminating vibration while increasing core recovery

### HydraVis D

Earth Pro HydraVis D is a naturally derived polymer utilized to enhance hole cleaning and cuttings transport in both salt and fresh water environments.

Earth Pro HydraVis D is a concentrated product that yields 8-10 times more volume pound for pound when compared to bentonite making Earth Pro HydraVis D a suitable choice for remote site work where transport is costly and facilities are limited.

### SaltVis L

Earth Pro SaltVis L is a liquid emulsion synthetic polymer that is specifically designed to hydrate to its maximum ability in salt, brackish or any raised salinity source water.

- Superior shelf life - does not separate like other polymer suspensions
- Easily mixed in liquid form
- Requires minimum amounts of shear to fully hydrate
- Reduces footprint when compared to alternatives like organophilic clays

# DRILLING FLUIDS & ADDITIVES

## SPECIALTY PRODUCTS



### Claymean L

Earth Pro Claymean L is a drilling fluid additive (organic liquid amine) that is used for **chemical inhibition of water sensitive clay and shale formations**. Used in air rotary drilling (all disciplines) and underground tunneling.

Low chlorides within **Earth Pro Claymean L**, alternate to KCl or Salt Brines for the prevention of hydration of clays and shale encountered while drilling.

## SURFACTANTS / FOAM



### BioFoam

Earth Pro BioFoam is a **surfactant blend foam for drill cutting removal** in under balanced fluid systems. Used primarily as a drilling foam that carries cuttings to the surface, **Earth Pro BioFoam** can also be used as a dust suppressant and as a discharge auger coolant.

- Used in air rotary drilling (all disciplines) and underground tunneling
- Non-flammable, non-toxic
- Highly dispersible in water
- Biodegradable



### Drilling Detergent L

Earth Pro Drilling Detergent L is an anionic, liquid, surface wetting agent. It is added to water based mud systems to **reduce surface tension**.

- Promotes solids setting and reduces pump pressure
- Increased penetration rates
- Reduced hole friction and torque
- Reduced wear on surface mud system expendables
- Increased bit life

## THINNERS / DISPERSANTS



### Claysperse L

**Earth Pro Claysperse L** is a cationic liquid dispersant and thinner for water based drilling fluids. It is primarily used for **deflocculation of drill solids** and as a **bentonite thinner**. It can also be used as a filter cake enhancer. It is best suited for fresh water systems with mud weight below 1200 kg/m<sup>3</sup>.

- Reduces viscosity in drilling fluid
- Can be utilized for wellbore cleanup prior to production
- Used to treat some contaminants in bentonite slurries

### Di-Sperse 72L

**Earth Pro Di-Sperse 72L** is effective at any pH and due to its rapid dissolution, it immediately affects the flow properties of a drilling fluid.

Its primary function is to act as a **flow control agent by reducing viscosity and gel strengths** in conventional and low solids water based drilling fluids.

### Drilling Detergent L

**Earth Pro Drilling Detergent L** is an anionic, liquid, surface wetting agent. It is added to water based mud systems to **reduce surface tension**.

- Promotes solids setting and reduces pump pressure
- Increased penetration rates
- Reduced hole friction and torque
- Reduced wear on surface mud system expendables
- Increased bit life

## WASTE TREATMENT



### Mud Terminator

Eliminate the high cost and difficulty of disposing drilling fluids with **Earth Pro Mud Terminator**. It consists of a proprietary blend of super absorbent polymers and minerals.

The material is non-hazardous, chemically inert (won't react with anything), non-dusty and absorbs very quickly.

**Earth Pro Mud Terminator** is utilized in liquid mud, industrial sludge or in drill cuttings waste expelled by solids control equipment to **absorb free liquid** allowing for the disposal of these products at standard landfills as solid waste.



## WATER WELL PRODUCTS

As a leading supplier to the Water Well industry, Di-Corp provides a mass selection of casing and drilling fluids. All products are backed by unmatched service and support.

## BENTONITE PRODUCTS



### Naturalgel

**Naturalgel** has the unusual property of expanding several times its original volume when placed in water. The result is **higher fluid viscosity, gel strength, and solids suspending ability**.



High bentonite concentrations tend to improve fluid loss control; however the compromise is higher cement permeability and lower compressive strength. **Naturalgel** can also be used as an extender at elevated temperatures.

### Extra High Yield Bentonite

**Extra High Yield Bentonite** has a higher performance formula that makes it very effective. This premium grade beneficiated Wyoming Bentonite is designed for use in **mineral exploration, water well** and **directional drilling** operations.



It is an efficient viscosifier that performs well in a variety of water qualities. It successfully reduces application rates, and mixes easily / quickly. **Extra High Yield Bentonite** is listed with the National Sanitation Foundation for use in potable water well construction. It is a 220-235 bbl yield product.

### Hydrogel

For use in drilling operations where **premium grade Wyoming Bentonite** is desired. **Hydrogel** is a preferred product for use in oil and gas exploration drilling where API 13A Section 9 material is required. It is also used in slurry trenching, caisson boring, and cast-in-place concrete foundations. **Hydrogel** is NSF Certified to NSF/ANSI 60.



### Wyoming Gel

**Earth Pro Wyoming Gel** is used for viscosity and filtration control in fresh water mud systems. In muds with a salinity of 3500 mg/L or higher the bentonite must first be prehydrated in fresh water.

**Earth Pro Wyoming Gel** conforms to the following API specifications (API Spec 13A, Section 4 Fourteenth Ed. Aug. 1991). Suspension of 22.5 grams in 350 ml of distilled water.

## CEMENTS & GROUTS



### Enviroplug Tablets

Enviroplug Tablets (Coated & Uncoated) are manufactured for use in **piezometer holes**, **monitor wells** and **other sealing and plugging applications**.

Enviroplug Tablets swell in water to more than 10 times their original volume.

Coated EnviroPlug Tablets make a high density, low permeability seal between sand packs and high solids bentonite grouts, and isolate screen sections in **multi-completion wells**.



### Enviroplug

Enviroplug Medium & Coarse are pure Wyoming Bentonites, designed for use as sealants for **hole abandonment**, **casing seals** or **any vertical seal to prevent water movement** up or down a bore hole.



When absorbing water, it swells to fill voids, exerting pressure against all surfaces to create a flexible low permeability seal.

Since **Enviroplug** is introduced in a dry state, shrinkage cannot occur and there is a reserve expansion capacity. Generally hydration takes 1 to 2 hours.



### Enviroplug No. 8, 16 & 20

Enviroplug No. 8, 16 and 20 are high-swelling Wyoming Bentonites in granular form.

The unique molecular structure allows them to **absorb five times their weight of water** and **swell to a volume of 12 to 16 times their dry bulk**, making it an ideal well sealant.

Applied dry or in a pumpable slurry, the fine granules expand against casings and formations to create a very low permeability flexible grout seal.



## Enviroplug Grout

**Enviroplug Grout** is a patented formula bentonite product designed to be used as a **water well grouting fluid, drill hole abandonment fluid, grout for geotechnical monitoring wells after casing placement, and other geotechnical construction applications** requiring non-destructible sub-grade seals.



Once in place, **Enviroplug Grout** begins to set and assumes a caulk-like consistency that contacts formations to establish a low permeability seal.

## Oilwell 'G' Cement

**Earth Pro Oilwell 'G' Cement** is manufactured according to very strict API (American Petroleum Institute) guidelines with respect to setting time, compressive strength, free water content, and other physical and chemical factors, to assure a consistent product suited for the high demands of the oil industry.

Typically this cement is **used where wellbore temperatures do not exceed 100°C BHST**.

## Grout-Well & Grout-Well DF

**Grout-Well and Grout-Well DF** are one step bentonite grouting materials designed to **achieve low permeability seals in water wells, monitor wells, geotechnical borings, and heat pump holes**.



**Grout-Well and Grout-Well DF** achieve a range of solids contents, 17% to 20% solids by weight.

**Grout-Well DF's** granular nature reduces dusty conditions during mixing operations.

## Portland Cement

**Portland Cement** is a high quality, cost-effective basic cement used in **Mineral Exploration, Geotechnical & Environmental, HDD, Oil Sands Coring** and **Water Well** drilling applications.

**Portland Cement** meets or exceeds all applicable chemical and physical requirements of ASTM C 150 and CSA A3000-03 (formerly A5-98).

**Portland Cement** can be used where early strength is required as well as in applications requiring moderately low levels of heat generation during the hydration process.

## Thermal 40 Cement

**Earth Pro Thermal 40 Cement** is **typically used where wellbore temperatures exceed 115°C**, due to well depth, or physical treatment (i.e. steam flooding).

Under extreme temperatures, Class G cement undergoes severe and detrimental chemical structure changes causing a rapid breakdown of cement integrity, resulting in a loss in compressive strength and substantial increases in permeability.

# DRILLING FLUIDS & ADDITIVES

## GENERAL CHEMICALS



### pH Up Soda Ash

Sodium Carbonate anhydrous commonly known as Soda Ash, is a chemical compound used widely in the drilling industry as a water based mud conditioner and contaminant treatment additive.

**Earth Pro pH Up Soda Ash** is used to precipitate calcium in make up water, which **softens the water and elevates the water's pH level** prior to mixing mud additives. This is desirable since bentonite and some polymers provide better yield in soft, slightly alkaline water.



### pH Down Citric

**Earth Pro pH Down Citric** can be added to any water based system where it is desired to lower the pH.

Regional disposal regulations sometimes mandate that the fluid being disposed of must be at a certain pH. This product works to **adjust pH levels**.



### Calcium Chloride 94-97%

**Calcium Chloride (94-97%)** is a basic manufactured salt, which is hygroscopic and highly soluble in water.

**Calcium Chloride (94-97%)** has a wide variety of uses:

- Freeze point suppression for water
- Material for increasing density
- Ice melter
- Dust controller

## Chem Clean Green

Earth Pro Chem Clean Green is the preferred **cleaner for grease and grime.**

This concentrated, hard-working degreaser goes to work right away, emulsifying and deodorizing. Its grease-fighting solvents and emulsifiers work great on heavy-duty cleaning tasks. It can also be diluted for light-duty cleaning tasks.

- Removes oil and grease in many cleaning applications
- Biodegradable and cost-effective
- Contains no petroleum distillates



## Sodium Bicarbonate

**Sodium Bicarbonate** is commonly known as Bi-Carb, Baking Soda or Bicarbonate of Soda.

**Sodium Bicarbonate** is most commonly used for **treating cement contamination** by precipitating the calcium as calcium carbonate and reducing the pH.

- Non-hazardous and widely available
- An effective, economic treatment for calcium removal
- Quickly reduces soluble calcium levels and fluid pH
- Easy to mix and use - soluble in water
- Safe to use - noncombustible

## Calcium Nitrate

**Calcium Nitrate** is a readily soluble source of calcium that can be utilized as a **coagulant in a clear water drilling system.**

In certain systems and at certain concentrations this product can also function as a clay and shale inhibitor.



# DRILLING FLUIDS & ADDITIVES

## GREASES, LUBRICANTS & COMPOUNDS



### Eco-Safe

**Eco-Safe** nonmetallic thread compound is a premium quality product containing carbon based fibers and additives and other natural extreme pressure and anti-wear additives. These are blended into a high temperature calcium complex base grease.

**Eco-Safe** offers the additional advantage of **superior adhesion to wet steel surfaces**, **resistance to water wash-off**, and **resistance to most drilling muds**. It is especially effective for invert or high-pH muds.



### Thread Compound

**Earth Pro Thread Compound** is factory coated on the box and pin ends of every Drillers Edge Rod and Casing. It's then protected with biodegradable plastic end caps to ensure it remains in place until used on the first make and break of the joint.

- Less friction for reduced galling
- Lowers torque requirements - proper makeup is achieved quickly with minimum torque
- Performs as an excellent sealant at pressures up to 20,000 psi
- Environmentally friendly



### Kopr-Kote

**Kopr-Kote** Drill Collar Compound and Tool Joint Compound is an unleaded, premium quality compound containing copper flake, graphite, rust and corrosion inhibitors, antioxidants, and other natural extreme pressure and anti-wear additives.

**Kopr-Kote** provides positive protection for **rotary shouldered connections under severe drilling conditions** where the probability of downhole make-up is anticipated. **Kopr-Kote** prevents high stress levels which shorten the useful life of drill string connections.

## GREASES, LUBRICANTS & COMPOUNDS



### Jet-Lube 21

**Nikal Thread Lube** is a premium quality anti-seize and gasket compound for use in extreme temperatures and hostile environments.

**Nikal Thread Lube** contains pure nickel flake and a nearly inert dispersing solid in a high quality aluminum complex base grease which provides **unsurpassed protection from rust** by water penetration or water wash off.



### Well-Guard

**Nikal Thread Lube** is a premium quality anti-seize and gasket compound for use in extreme temperatures and hostile environments.

**Nikal Thread Lube** contains pure nickel flake and a nearly inert dispersing solid in a high quality aluminum complex base grease which provides **unsurpassed protection from rust** by water penetration or water wash off.



### Nikal Thread Compound

**Nikal Thread Lube** is a premium quality anti-seize and gasket compound for use in extreme temperatures and hostile environments.

**Nikal Thread Lube** contains pure nickel flake and a nearly inert dispersing solid in a high quality aluminum complex base grease which provides **unsurpassed protection from rust** by water penetration or water wash off.

## LOST CIRCULATION MATERIALS



### Cellophane

Clear multi-sized flakes of polycellulose, with an average size of 9.5mm (3/8"). **Cellophane** is used as a **sealing agent supplement to other lost circulation material**.

**Cellophane** works with low and normal density slurries and has excellent bridging properties. It is non-toxic, biodegradable, chemically inert and environmentally safe. **Cellophane** does not affect the compressive strength of the material.



### Prima-Seal

**Prima-Seal** is a lost circulation material designed to be **effective in combating all types of losses**. It is a formulated blend of granules (bridging agent), fibers (matting agent) and flakes (sealing agent), provided in three grind sizes (fine/medium/coarse).

Each size is designed for certain applications and situations and may be used by itself or in conjunction with other lost circulation additives.



### Sawdust

**Sawdust** is the most economical and readily available lost circulation material choice for mud engineers and is the preferred product for use as an absorbent and deck clean-up on drilling rigs.

**Sawdust** has no additives and is consistent high quality - pure wood product. It is **economical and environmentally friendly**.

## LOST CIRCULATION MATERIALS



### Magma Fiber

**Magma Fiber** is a specially formulated acid soluble, extrusion spun mineral fiber for lost circulation problems. It is 97.3% soluble in a 7.5% HCL acid.

It is a spun mineral fiber, which acts as a **plugging** and **bridging agent** to plug voids, fractures, and all types of permeable formations.



### Walnut

A lost circulation material of ground **Walnut** is available in three grades, fine, medium, and coarse; ranging in size from 100 mesh to 6 mesh.

Used as a **lost circulation material** or **bridging agent** due to its granular nature. **Walnut** is chemically inert and may be added to any mud system.



### Plugz-It Max

**Plugz-It Max** is a lost circulation material designed to mix and pump with a drilling fluid into cobble, gravel, or fractured zones to restore mud circulation. It readily **seals off coarse gravels, fractured formations, and other profiles where mud-loss is a problem.**

**Plugz-It Max** can be placed directly through the jets in the bit provided they are a minimum of 3 mm or 1/8" in size. **Plugz-It Max** is environmentally safe and non-toxic.

## POLYMER ADDITIVES



### MultiMix

Earth Pro MultiMix is a dry blend of specially engineered synthetic polymers designed to flexibly **bond loose ground** and **improve wellbore stability** in difficult drilling situations.

It is used to penetrate unconsolidated formations and then fully hydrate to form a sort of polymer glue holding formation in place allowing for drilling to proceed uninhibited.



### ProPac D

Earth Pro ProPac D is a 100% active dry natural based polymer that is used to control fluid loss and enhance filter cakes. It can also be used as a high shear rate viscosity modifier or lubricant.

Common usage of Earth Pro ProPac D is in **Horizontal Directional Drilling, Mineral Exploration** and large **Bore Infrastructure** drilling. Offers optimal carrying capacity in deeper more challenging holes.



### AE 851

Earth Pro AE 851 can be used as a **viscosifier**, **foam stabilizer**, and as a **flocculant** to promote water clarification when clear water drilling.

- Drilling fluid additive - viscosifier, foam stabilizer or flocculant
- Anionic water soluble polymer
- Can be used in gumbo shales
- Holes larger than 222 mm will require higher concentrations when used as a flocculant

## POLYMER ADDITIVES



### Poly-Xan

**Earth Pro Poly-Xan** is a high molecular weight biopolymer of Xanthan Gum. It is used primarily as a viscosifier in fresh water, seawater or saline muds. It also provides a measure of filtration control.

**Earth Pro Poly-Xan** is designed to provide **viscosity on shallow and medium depth wells** where economics demand high performance at a reasonable cost.



### Staflo

**Staflo** is a low molecular weight, polyanionic cellulose polymer of high purity. It is available in Regular and Exlo Supreme grades and is a primary **fluid-loss reducer for water-based drilling fluids**.

**Staflo Regular** also provides secondary viscosity. When fluid loss control without additional viscosity is required, **Staflo Exlo Supreme** should be used.

## PRODUCTION CHEMICALS



### Nu-Well 100

**Nu-Well 100 pelletized acid** is formulated for pouring directly into the well.



While it may be dissolved and pumped into the well as a liquid, the pellet form rapidly falls through the water column, providing concentrated acid cleaning power at the bottom of the well.

**Nu-Well 100** is best for wells with short to moderate lengths of screen at the bottom.



## PRODUCTION CHEMICALS

### Nu-Well 110

**Nu-Well 110** granular acid is effective for cleaning wells, either introduced at the well head in granular form or dissolved and pumped into the well as a liquid.



**Nu-Well 110** granular acid blend is used for **cleaning residential, irrigation, commercial and municipal water wells.**

### Nu-Well 120

**Nu-Well 120** is a liquid acid and is considered the optimal basic ingredient for many cleaning applications.



This **liquid food-grade phosphoric mineral acid** effectively removes common mineral deposits found in well, filter beds and water system equipment.

### Nu-Well 220

**Nu-Well 220** dispersant polymer uses liquid dispersant chemistry specifically designed to **remove mud and clay from the well environment** more efficiently than other products.



It successfully develops new wells without using phosphate and rehabilitates old wells plugged with clays, silts and fines.

### Nu-Well 310

**Nu-Well 310** bioacid dispersant is a unique polymeric-acid chemistry that is the most effective product available for breaking down biofilm and dispersing mineral salts.



It may be **used to treat potable water systems and related equipment** in addition to large municipal and industrial wells.

### Nu-Well 410

**Nu-Well 410** chlorine enhancer is used with hypochlorite to increase effectiveness of chlorination. It **increases the hypochlorous acid and bacteriological activity.**



### Nu-Well 500

**Nu-Well 500** chlorout is a concentrated crystal that **easily dissolves for fast neutralization** and is used to neutralize chlorine solutions before their disposal.



It is used on the surface, after the well or system discharge has been pumped into a tank or holding pond.

# DRILLING FLUIDS & ADDITIVES

## SPECIALTY PRODUCTS



### Claymean L

Earth Pro Claymean L is a drilling fluid additive (organic liquid amine) that is used for **chemical inhibition of water sensitive clay** and **shale formations**. Used in air rotary drilling (all disciplines) and underground tunneling.

Low chlorides within **Earth Pro Claymean L**, alternate to KCl or Salt Brines for the prevention of hydration of clays and shale encountered while drilling.

## SURFACTANTS / FOAM



### BioFoam

Earth Pro BioFoam is a **surfactant blend foam for drill cutting removal** in under balanced fluid systems. Used primarily as a drilling foam that carries cuttings to the surface, **Earth Pro BioFoam** can also be used as a dust suppressant and as a discharge auger coolant.

- Used in air rotary drilling (all disciplines) and underground tunneling
- Non-flammable, non-toxic
- Highly dispersible in water
- Biodegradable

## THINNERS / DISPERSANTS



### Claysperse L

Earth Pro Claysperse L is a cationic liquid dispersant and thinner for water based drilling fluids. It is primarily used for **deflocculation of drill solids** and as a **bentonite thinner**. It can also be used as a filter cake enhancer. It is best suited for fresh water systems with mud weight below 1200 kg/m<sup>3</sup>.

- Reduces viscosity in drilling fluid
- Can be utilized for wellbore cleanup prior to production
- Used to treat some contaminants in bentonite slurries

## THINNERS / DISPERSANTS



### Di-Sperse 72L

Earth Pro Di-Sperse 72L is effective at any pH and due to its rapid dissolution, it immediately affects the flow properties of a drilling fluid.

Its primary function is to act as a **flow control agent by reducing viscosity and gel strengths** in conventional and low solids water based drilling fluids.

### TKPP

TKPP is an alternative to SAPP and Earth Pro Drilling Detergent L. This product is a concentrated dispersant that acts to **prevent clay from building up** and **sticking to tooling and rods**.

It may be added to any water based system either directly to the entire mud system or in concentrated form by adding directly to tool joints on connections and pumped as a sweep.

### Drilling Detergent L

Earth Pro Drilling Detergent L is an anionic, liquid, surface wetting agent. It is added to water based mud systems to **reduce surface tension**.

- Promotes solids setting and reduces pump pressure
- Increased penetration rates
- Reduced hole friction and torque
- Reduced wear on surface mud system expendables
- Increased bit life

## WEIGHTING MATERIALS

### Barite

Barite is a weighting material possessing a specific gravity ranging from 4.2 to 4.3. It is **used in all muds to increase the density or weight**.

Barite is a non-soluble natural mineral that is non-abrasive to pumping equipment.

### Cal Carb 325

Calcium Carbonate ( $\text{CaCO}_3$ ) is a naturally occurring, ground limestone. As **Calcium Carbonate 325** grind, this finer grade of calcium carbonate is used primarily as weighting materials.

**Cal Carb 325** can effectively raise the density of a drilling fluid to a maximum of 1600kg/m<sup>3</sup>.

# SAND AND GRAVEL

## Water Well Sand and Gravel

### Western Canada



Product #	Type	Packaging
11256	Filter Sand 10/20	50 LB
11255	Filter Sand 20/ 40	100 LB
49603	Filter Gravel 4/10	50 LB



Product #	Type	Packaging
47366	Silica Sand 6/9	50 LB
31203	Silica Sand 8/12	50 LB
47389	Silica Sand 10/16	50 LB
31204	Silica Sand 10/20	50 LB
49012	Silica Sand 12/20	50 LB
47255	Silica Sand 20/40	50 LB



## Drop Pipe

The **Shur-Align Drop Pipe's** patented design allows for quick and safe installation for any submersible pump.

The patented Shur-Align Joint is an innovative and simplistic PVC pipe assembly design; it features a simple alignment and engagement, a beveled shoulder, quick makeup, watertight seal.

The entire joint, not just the coupling, is formed from schedule 120 PVC for maximum strength and durability, making installation of submersible pumps quicker and simpler.

Galvanized Drop Pipe also available in 1" - 4".

Product #	Size	Schedule	Description
46429	1" x 20'	120	MPT x FPT
47021	1-1/4" x 20'	120	MPT x FPT
49107	1-1/2" x 20'	120	MPT x FPT
46858	2" x 20'	120	MPT x FPT



## PVC Casing

Di-Corp's Water Well **PVC Casing** is the industry leading choice for PVC Cased Water Wells. **PVC Casing** incorporates the **Di-Corp Engineered Tapered Buttress Threads** which have 5 threads per inch and are proven to provide **superior load-bearing** capability in both engineering models and laboratory tests.

By designing a stronger thread we have given the contractor a product that they can rely on every time they drill a water well.

PVC Casing	
Product #	Description
48837	4.5" x 20' x SDR 21 5 TPI
48896	4.94" x 20' x .248" 5 TPI
48947	4.94" x 20' x .291" 5 TPI
49242	5" x 20' x SCH 80 5 TPI LH
49241	5" x 20' x SCH 80 5 TPI RH
49636	6" x 10' x .390" 5 TPI LH
48864	6" x 20' x .390" 5 TPI LH
48863	6" x 20' x .390" 5 TPI RH

Slotted PVC Casing	
Product #	Description
48897	4.94" x 20' x .248" 5 TPI .020"
49001	4.94" x 20' x .291" 5 TPI .020"
48845	4.5" x 20' x SDR 21 5 TPI .020"
41124	4.5" x 20' x SDR 21 8 TPI .020"
49571	6" x 10' x .390" 5 TPI LH .020"
49173	6" x 20' x .390" 5 TPI LH .020"
48945	6" x 20' x .390" 5 TPI RH .020"
49572	6" x 5' x .390" 5 TPI LH .020"

## Steel Casing

Di-Corp can supply **Steel Casing** in a wide array of sizes for a variety of applications ranging from 4"-12" in SCH 20-80.

Di-Corp offers plain end, beveled end, insert joint and thread & coupled ends. **Steel Casing** is offered in carbon steel and stainless steel finishes.

Steel Casing			
Product #	Size	Wall Thickness	End Type
41724	4-1/2" x 21'	.237"	Thread & Coupled
41735	5-9/16" x 20'	.188"	Insert Joint
41736	5-9/16" x 20'	.258"	Insert Joint
41165	6-5/8" x 5'	.188"	Plain End
47139	6-5/8" x 20'	.188"	Bevelled
41746	6-5/8" x 20'	.188"	Insert Joint
41751	7" x 20'	.231"	Insert Joint
41759	8-5/8" x 21'	.322"	Thread & Coupled
46778	10-3/4" x 21'	.365"	Thread & Coupled

Casing Protectors		
Product #	Size	Wall Thickness
41160	4-1/2" x 5'	.188"
41169	5-9/16" x 5'	.188"
49680	6-5/8" x 2.5'	.188"
41165	6-5/8" x 5'	.188"
49457	8-5/8" x 5'	.188"

# SCREENS, ADAPTERS & WELD RINGS

## Stainless Steel Screens

- All common sizes in stock
- Custom orders available
- Stainless Steel Rise Pipe in any thread size is also available.



Product #	TEL x Length	Slot Size
49523V	4" x 5'	.008"
41195V	4" x 5'	.010"
41196V	4" x 5'	.012"
41198V	4" x 5'	.020"
41268V	4" x 5'	.030"
41236V	5" x 10'	.007"
41238V	5" x 10'	.015"
46091V	5" x 5'	.008"
41199V	5" x 5'	.010"
41201V	5" x 5'	.015"
41202V	5" x 5'	.020"
41203V	5" x 5'	.025"
41204V	6" x 5'	.010"
41205V	6" x 5'	.012"
41206V	6" x 5'	.015"
41207V	6" x 5'	.020"
42320V	6" x 5'	.025"
41386V	6" x 5'	.030"
41383V	6" x 5'	.040"
41395V	6" x 5'	.050"

## Pitless Adapters

**Pitless Adapters** are more economical, sanitary, safer and sightlier than a well pit. The below ground placement provides a frost-free connection and a sanitary method of connecting the discharge pipe to the drop pipe.

The unit is designed with a quick-disconnect mechanism that allows easy access to the well for servicing and for shock. It also provides a quick and easy method for removing the submersible pump from the well.

### MAASS Pitless Adapters

Product #	Description
27072	Pitless Adapter 5-9/16" OD CI 5JCI
44285	Pitless Adapter CI 6 OD JC 2

### Bulldog Pitless Adapters

Product #	Size	Description
46079	4" x 1"	Pitless Adapter
46080	4" x 1.25"	Lead Free Pitless Adapter
46081	5" x 1"	Lead Free Pitless Adapter
50261	5" x 1.25"	Lead Free Pitless Adapter
46270	6" x 1.25"	Pitless Adapter

### Snappy Pitless Adapters

Product #	Size	Description
27000	4" x 1"	Pitless Adapter
27004	4" x 1.25"	Pitless Adapter
27006	5" x 1"	Pitless Adapter
27010	6" x 1"	Pitless Adapter

## Weld Rings

**Weld Rings** are used as a coupling for steel casing that is going to be welded to join the casing together. This method helps to strengthen the weld as two welds are now required versus one and the ring also provides a cleaner line to weld on.

Product #	Description
48846	4-1/2" x 3-3/4" Long
43758	5-9/16"
42404	6-5/8" x Long
43496	6-5/8" x Short
42407	7"





## Liners

Product #	Description
27013	Mud Pump Liner 5.5" x 8"
46585	Mud Pump Liner 4.5" x 5" GD
46641	Mud Pump Liner 4" x 5"
42003	Liner Packaging 5.5" x 8"
42004	Liner Packaging 5" x 6"
42006	Liner 5" x 6" 5" Bore PPGD
42007	Liner 5.5" x 8" 5.5" Bore PPGD
44319	Gasket Liner 5" x 6" PPGD
47338	Gasket Line for D-300 AJ1125
47339	Gasket Liner for D-300 AJ1115
47225	Chrome Liner 5.5" x 8" and 5.5" x 10" PPGD

## Repair Kits

Product #	Description
27015	Repair Kit 5.5" x 8"
27021	Piston Repair Kit 5" x 6"
42182	Piston Repair Kit 5.5" x 8" PPF
42183	Piston Repair Kit 5" x 6" PPGD

## Rods

Product #	Description
42187	Piston Rod 5" x 6" API PPGD
47224	Chrome Piston Rod 5" x 8" and 5.5" x 8"
46586	Rod with Nut 4.5" x 5"
27018	Rod Packaging 2.5" x 1.5"
47313	Rod Packaging OEM EMS D-375
47322	Rod Packaging for D-300

## Piston & Rubber Kits

Product #	Description
42181	Piston 5.5" x 8" API-3 PPGD
42184	Piston 5" A API-1 PPGD
47335	Piston 5.5" H-B-14/15
46588	Piston Rubber Kit 4.5" x 5" GD
46644	Piston Rubber Kit 4" x 5" GD

## Misc. Parts

Product #	Description
27024	Junk Ring 5" x 6" Thick
27025	Junk Ring 5" x 6" Thin
27075	Valve Inserts 5" x 6"
41958	Gasket Cylinder Head 6-1/4" PPGD
41959	Gasket Valve Cover 5" x 6" and 5" x 8"
42334	Spring Valve Brass PPGD
47324	Valve Spring HD for D-300 (Red Strip)
47346	Cylinder Head Flange Gasket for D-300 Fluid End
47347	Valve Bumper for D-300 Fluid End
48782	Rubber Insert Standard Valve 5" x 6"
48783	Seat Standard 5" x 6", 5" x 8", 5.5" x 8", 5" x 10", 5.5" x 10" PPGD

## Seat & Valve Gravel

Product #	Description
27028	Valve Gravel 5" x 6" and 5.5" x 8"
42391	Valve Gravel Rubber Insert
42392	Valve Gravel Rubber PPGD
44382	Valve Gravel Poly 5" x 6" and 5" x 8" PPFA
42390	Seat Gravel 5" x 6" and 5" x 8" PPGD

A **Mud Pump** is composed of many parts including mud pump liner, mud pump piston, modules, hydraulic seat pullers, and other parts. Di-Corp offers a full line of parts for **Mud Pumps** including various styles of liners, repair kits, rods, pistons, rubber kits, seat gravel and valve gravel.

# ACCESSORIES



## Drive Shoes

**Drive Shoes** are a coupling either welded or threaded to the bottom of steel casing to prevent damage to the casing while driving or pushing the casing.

Di-Corp manufactured **Drive Shoes** are made in house with high quality steel that is machined in our precision CNC machines and heat treated to give the contractor a tough drive shoe that will tackle any drilling condition.

Standard Drive Shoes		
Product #	Size	Style
44101	4-1/2" x 4" ID x 4" Long	Weld On
46684	4-1/2" x 4" ID x 4" Long	Threaded
41853	4-1/2" x 4-1/8" ID x 4" Long	Weld On
41851	4-1/2" x 4-2/25" ID x 4" Long	Threaded
43949	5-9/16" x 5-1/4" ID x 4" Long	Threaded
43457	5-9/16" x 5-1/4" ID x 4" Long	Weld On
41872	5-9/16" x 5-1/4" ID x 4-1/2" Long	Weld On
41903	6-5/8" x 6-1/8" ID x 4" Long	Weld On
41900	6-5/8" x 6-1/8" ID x 4" Long	Threaded
41890	6-5/8" x 6-1/8" ID x 4-1/2" Long	Threaded
41899	6-5/8" x 6-1/8" ID x 5-3/8" Long	Threaded
41878	6-5/8" x 6-1/8" ID x 5-3/8" Long	Weld On
41916	6-5/8" x 6-1/4" ID x 3-1/2" Long	Weld On
41918	6-5/8" x 6-1/4" ID x 4-1/2" Long	Threaded
41920	6-5/8" x 6-1/4" ID x 4-1/2" Long	Weld On
43479	6-5/8" x 6-1/4" ID x 5-1/2" Long	Weld On
43458	6-5/8" x 6-1/4" ID x 5-3/8" Long	Weld On
41896	6-5/8" x 6-1/4" ID x 5-3/8" Long	Threaded
41923	7" x 6-1/2" ID x 5-3/4" Long	Weld On
43468	8-5/8" x 8-1/8" ID x 7-3/4" Long	Weld On
44569	8-5/8" x 8-1/8" ID x 7-3/4" Long	Threaded
41928	8-5/8" x 8-1/4" ID x 7-3/4" Long	Weld On
43469	10-3/4" x 10-1/4" ID x 9-1/2" Long	Weld On

Rotary Drive Shoes		
Product #	Size	Style
46014	5" x 4-2/25" ID x 4" Long	Weld On
41871	5-9/16" x 5-1/4" ID x 4" Long	Weld On
41874	5-9/16" x 5-1/4" ID x 4" Long	Threaded
41884	6-5/8" x 6-1/8" ID x 4" Long	Threaded
41883	6-5/8" x 6-1/8" ID x 4" Long	Weld On
41921	6-5/8" x 6-1/8" ID x 4-1/2" Long	Threaded
41906	6-5/8" x 6-1/8" ID x 5-3/8" Long	Weld On
41885	6-5/8" x 6-1/8" ID x 5-3/8" Long	Threaded
41897	6-5/8" x 6-1/8" ID x 5-3/4" Long	Threaded
41915	6-5/8" x 6-1/4" ID x 3-1/2" Long	Weld On
43478	6-5/8" x 6-1/4" ID x 5-1/2" Long	Weld On
43478L	6-5/8" x 6-1/4" ID x 5-1/2" Long Taper	Weld On
43435	6-5/8" x 6-1/4" ID x 5-3/8" Long	Weld On
41917	6-5/8" x 6-1/4" ID x 5-3/8" Long	Threaded
41929	8-5/8" x 8-1/8" ID x 7-3/4" Long	Weld On



## K-Packers

**K-Packers** are designed to provide a sand tight seal between the well screen and casing and are typically used on the top of telescope size screens in the water well, construction and environmental drilling industries.

Steel K-Packers		
Product #	Size	Description
41323	4-1/2" x 3"	Figure K
42113	5-1/8" x 4"	Figure K
49318	7" x 8"	Casing Female x Male

PVC K-Packers		
Product #	Size	Description
48894	4-1/2" x 2'	Double Figure K 5 TPI
49543	4-1/2" x 2'	Double Figure K 5 TPI for 6-5/8" Steel Casing



## Well Caps

Product #	Description
WCP4V	4V Well Cap
27030	5V Well Cap
30567	5W Well Cap
27033	6.6V Well Cap
27032	6V Well Cap

## Shale Traps

**Shale Traps** are constructed of neoprene rubber for elasticity and strength. **Shale Traps** are designed to support a grout column above the producing zone to seal between the casing and the bore hole when grouting. Available in soft or hard rubber and comes standard with stainless steel clamp.

Product #	Size
38449	3" x 6"
49561	4" x 6"
30651	4" x 7"
46135	4-1/2" x 6"
30650	4-1/2" x 8"
38451	5" x 8"
49172	5-3/4" x 8"
31036	6" x 9"
38452	6" x 10"
38442	8" x 14"

## PVC Transition Fittings

**PVC Transition Fittings** are used as a threaded coupling to enable you to go from Di-Corp's Engineered Buttress Threaded Water Well casing to any telescopic stainless steel screen with an NPT thread.

Product #	Description
49011	4.5" 5 TPI Female x 3" NPT Female
49010	4.5" 5 TPI Female x 4" NPT Female
49006	4.94" Female Slip x 4" NPT Female
48962	4.94" 5 TPI Female x 3" NPT Female
49005	4.94" 5 TPI Female x 4" NPT Female
49167	5" LH 5 TPI Female x 3" NPT Female
49166	5" LH 5 TPI Female x 4" NPT Female
49165	5" LH 5 TPI Female x 5" NPT Female
49164	6" LH 5 TPI Female x 4" NPT Female
49009	6" LH 5 TPI Female x 5" NPT Female
49007	6" RH 5 TPI Female x 4" NPT Female
49008	6" RH 5 TPI Female x 5" NPT Female





## UNIVERSAL ACCESSORIES

Di-Corp offers a range of accessories that are applicable to all industries including Geotechnical & Environmental, Geothermal, Horizontal & Directional Drilling, Infrastructure, Jet Grouting, Mineral Exploration, Mineral Processing, Oil Sands Coring, Tunneling and Water Well.



## Alturamatats

**Alturamatats** are perfect tracks where heavy vehicles must pass across mud, lawns or soft terrain. They are made of 100% recycled polyethylene plastic.

Super tough and flexible enough to conform to ground contour as well as strong enough to support tons of equipment. The mats are weather proof, 1/2" thick, long lasting, virtually indestructible, UV resistant and field tested in record breaking cold / heat.

Available in:

- 4' x 8' (1.22 x 2.44 m)
- 3' x 8' (0.91 x 2.44 m)
- 2' x 8' (0.61 x 2.44 m)
- 2' x 6' (0.61 x 1.83 m)
- 2' x 4' (0.61 x 1.22 m)



## Dope Brushes

Heavy duty thread compound dope brushes are engineered to hold up to the rough conditions where they are used and the materials that are being applied.

Solid wood handles with rubber drip collars make for safe handling. Used to apply any bulk product.

Available in Tapered (1-1/8" x 16" Brush: 4" x 3") and Beveled (1-1/8" x 16" Brush: 4" x 3").



## Hydraulic Mud Mixer

A **Hydraulic Mud Mixer** is an essential tool of achieving the perfect balance of drilling additives and water to maximize the lubricating agents within the additives. This ensure that down the hole equipment is protected effectively.

- Maximum Speed: 5200 RPM
- Maximum Pressure: 2000 PSI
- Displacement: .070 Cubic Inches
- Typical Flow: 9-12 GPM
- Porting Connections: #10 Hydraulic Male
- Dimensions: 11.25" W x 20" L x 15' H

Hydraulic hoses not included.

## Emergency Spill Kit

This heavy duty **Spill Kit** is ideal for around the plant - place it and forget about it! The water tight, screw down lid and UV treated polyethylene overpack will last outdoors. With grab handles that make moving it easy, this container meets UN regulations as an overpack allowing this kit to double as a disposal container. This kit is also available in the wheeled overpack.

Available in: (Oil, Universal and HazMat sorbents)

Dimensions: 32" Diameter x 41" Height

Approximate weight: 115 lbs

Includes:

- 100 sorbent pads
- 6 small pillows
- 2 large pillows
- 5 large socks
- 2 small socks
- 1 25lb bag granular absorbent
- 1 plug pattie (instant stop leak)
- 1 neoprene drain cover
- 2 disposal bags
- 2 pair splash goggles
- 2 pair reusable nitrile gloves
- 2 poly-coated Tyvek coverall
- 1 95 gal overpack (DOT/UN rated)



## Oil Sorbent Mats

Whenever oil spills or leaks, you may be held responsible for damages. Reasonable precaution is the best security. Outdoors, Oil Sorbent Mats rapidly absorbs the oil which has escaped - both on land and water.

It gives you the effective means to prevent costly and potentially harmful effects on the environment.

Supplied in rolls - 3' x 150'

Available in two different grades:

- Regular Grade: For indoor shop use and moderate outdoor duty
- Heavy Duty Grade: Stronger for more demanding outdoor use. Can also be used indoors.



# INDEX BY PRODUCTS

## A

Adaptor Subs 30, 94  
ADT 4½" Wireline Core Barrel 116  
ADT 4½" Wireline Overshot 117  
ADW600 Survey Winch 96  
AE 851 60, 70, 121, 138  
Alcomer 120L OS 52  
Alturnamats 151

## B

Barite 23, 45, 64, 89, 114, 143  
Big Bear Rod Grease 82  
Bio Bear Rod Grease 17, 82  
BioFoam 22, 45, 75, 123, 126, 142  
Bolted Couplings 67

## C

Cal Carb 325 23, 45, 64, 89, 114, 143  
Cal Carb Poultry Grit 110  
Calcium Chloride 94-97% 14, 39, 53, 81, 106, 132  
Calcium Nitrate 14, 38, 52, 81, 105, 133  
Carbonado Bits 29, 93  
Casing Bits 29, 93  
Casing Protectors 34  
Casing Shoes 29, 93  
Cellophane 57, 109, 136  
Centralizers 34  
CF Desco II 113  
Chem Clean Green 15, 39, 54, 71, 80, 106, 122, 133  
Claymean L 22, 44, 62, 87, 112, 126, 142  
Claysperse L 22, 45, 62, 75, 88, 112, 127, 142  
CombiVis L 20, 86  
CoreMix Green 102, 111

## D

Depramin 96 & C 100  
Diamond Impregnated Bits 28, 91

Di-Sperse 72L 63, 113, 127, 143  
Displacement Plugs 25, 90  
Dope Brushes 151  
Drill Rods 30, 94  
Drilling Detergent L 63, 126, 74, 75, 113, 127, 143  
Drive Shoes 148  
Drop Pipe 145

## E

Eco-Safe 16, 40, 55, 72, 108, 123, 134  
Emergency Spill Kits 152  
Enviroplug 12, 50, 79, 103, 130  
Enviroplug Grout 12, 103, 131  
Enviroplug No. 8, 16 & 20 12, 50, 79, 130  
Enviroplug Tablets 11, 50, 78, 103, 130  
Expansion Joints 68  
Extra High Yield Bentonite 11, 37, 49, 78, 102, 121, 129

## G

GeoPac D 60, 86  
Geotechnical & Environmental Sand 31  
Geothermal Sand 47  
Grout-Well & Grout-Well DF 13, 37, 51, 79, 104, 131  
Guar Gum HP 4501P 100

## H

Heavy Duty 2 Part Clamps 68  
Humalite (Lignite) 114  
Hydraulic Mud Mixer 151  
HydraVis D 20, 60, 74, 86, 125  
HydraVis L 21, 44, 87  
Hydrogel 66, 70, 102, 129  
Hyperdrill AD 855 51  
Hyperdrill AE 853 51  
Hyperdrill AF 247RD 52  
Hyperdrill CP 905H 52

## I

Inline Centralizers 96  
isAnalysis Software 97  
isCompass 95  
isGyro 95  
ISRG38 Running Gear Kit 96  
isSlimGyro 95

## J

J Plugs 25  
Jet-Lube 21 16, 40, 56, 108, 135

## K

Kleer-Kore Tubes 33, 98  
Kopr-Kote 16, 40, 55, 72, 83, 107, 123, 134  
K-Packers 149  
Kwik Klamps & Parts 35

## L

Liners 147  
Linseed Soap 17, 83  
Locking Well Caps 34  
Lynac Sampler 26

## M

Magma Fiber 58, 110, 124, 137  
Magnafloc 430 / Zetag 7692 52, 70, 121  
Margo Plugs 25, 90  
Micro-Gel 121  
Misc. Parts 147  
Mud Pump Parts 118  
Mud Terminator 23, 64, 66, 76, 89, 127  
MultiMix 19, 43, 59, 85, 111, 138

## N

Naturalgel 102, 129  
Nikal Thread Compound 16, 40, 55, 83, 108, 135  
Nu-Well 100 139  
Nu-Well 110 141  
Nu-Well 120 141  
Nu-Well 220 141  
Nu-Well 310 141  
Nu-Well 410 141  
Nu-Well 500 141

## O

Oil Sands Coring Sand 115  
Oil Sorbent Mats 152  
Oilwell 'G' Cement 104, 131

## P

PCD Quadlatch Bits 118  
pH Down Citric 14, 38, 53, 71, 81, 105, 122, 132  
pH Up Soda Ash 13, 38, 53, 71, 81, 105, 122, 132  
Pipe & Loop Accessories 46  
Piston & Rubber Kits 147  
Pitless Adapters 146  
Plugz-It Max 42, 137  
Poly-Xan 61, 72, 111, 139  
Portland Cement 13, 51, 80, 104, 131  
Prima-Seal 18, 42, 57, 84, 109, 136  
ProPac D 19, 43, 73, 111, 124, 138  
PVC Caps & Points 33  
PVC Casing 145  
PVC Environmental Pipe 32  
PVC Prepacks 34  
PVC Transition Fittings 149

## R

Reaming Shells 29, 93  
Repair Kits 147  
RockBond 88  
Rod Shoes 29, 93  
Rod Wipers 47  
Rods 147

## S

Safety Plugs 25, 90  
SaltVis L 21, 61, 74, 87, 125  
Sawdust 18, 42, 57, 84, 109, 136  
Sea Mud 11  
Seat & Valve Gravel 147  
Shale Traps 149  
Shelby Tubes 26  
Sighting Device Kit 97  
Slope Inclinator Casing 33  
Soap Stick FS-16 114  
Sodium Bicarbonate 15, 39, 54, 80, 106, 133  
Soil Bags 34  
Sonic Splits & Split Caps 119  
Split Steel Casing 67  
Staflo 61, 72, 112, 139  
Stainless Steel Screens 146  
Steel Casing 145  
StopLoss 18, 42, 58, 84, 110  
Support Brackets 67  
SynVis D 19, 59, 73, 85, 125  
SynVis L 21, 43, 59, 70, 73, 85, 121, 125

## T

Thermal 40 Cement 104, 131  
Therm-Ex Grout 37  
Thread Compound 17, 41, 56, 82, 107, 134  
TKPP 63, 113, 143  
Tripod 97  
Tru-Bore 49  
Tube & Pipe Bends 68  
TurboCut 17, 41, 44, 56, 82, 88, 107

## V

Van Ruth Plugs 25, 90  
VK Grout Plugs 25, 90

## W

Walnut 58, 124, 137  
Water Well Sand and Gravel 144  
Weld Rings 146  
Well Caps 149  
Well Markers 35  
Well-Guard 16, 40, 56, 108, 135  
Wire Line Casing 30, 94  
Wooden Core Boxes 35, 119  
Wooden Quad Box 35, 119  
Wyoming Gel 102, 129

## X

XL-Defoamer 62

## Z

Z-50 83

# LOCATIONS

## CANADA LOCATIONS

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Bay D - 4405-75 Ave SE  
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**Calgary, AB**  
#900, 800-6th Ave SW  
T: 1.800.661.1343

**Calgary, AB**  
Unit 2, 4816 35B St SE  
T: 1.800.661.1343

**Delta, BC**  
7533 Progress Way, Unit 2  
T: 1.800.665.6645

**Innisfail, AB**  
4211-52nd Street Close  
T: 403.227.4477

**Nisku, AB**  
507-14 Ave  
T: 780.955.5553

**North Bay, ON**  
35 Voodoo Crescent  
T: 705.472.7700

**Saskatoon, SK**  
Bay 3 - 110 Wheeler St  
T: 306.931.2190

### STOCK LOCATIONS

**Di-Corp Warehouse**  
Nisku, AB

**Formula Powell**  
Blackfalds, AB  
Edson, AB  
Fort St. John, BC  
Grande Prairie, AB  
High Level, AB  
Lloydminster, AB  
Slave Lake, AB

**Kentrax Warehouse**  
Weyburn, SK

**Smithbrook Mud Service**  
Brooks, AB

**Other Third Party Sites**  
Mississauga, ON  
Montreal, QC  
Thunderbay, ON  
Prince George, BC

## USA LOCATIONS

### BRANCHES

**Jentech Drilling Supply**  
195 Ingenuity Ave,  
Sparks, NV 89441  
T: 775.424.3045

### STOCK LOCATIONS

**Di-Corp Warehouse**  
Colorado Springs, CO

**Jentech Warehouse**  
Bakersfield, CA  
Battle Mountain, NV  
Elko, NV  
Nephi, UT  
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