

The logo for DrilRite Chem LLC. The word "Dril" is in black, and "Rite" is in red. The letter "D" is stylized with a drill bit tip at its base. Below the main text, "CHEM LLC" is written in black, all-caps, sans-serif font.

CHEM LLC

www.drilrite.net

PRODUCT INFORMATION

DrilRite-Chemical LLC personnel have several years of experience in the drilling industry with multiple HDD and downhole O&G projects on our resume. Our drilling fluids engineers can provide multiple references in either field upon request. With our background in both mud engineering and general consulting, we are continuously called upon to aid on projects by both drilling contractors and mud companies. With bores across the U.S. varying from 18,000 ft high pressure /under balanced wells to 11,000 + ft HDD river crossings, DrilRite-Chem has the necessary experience to provide you with quality products and service.

1. **ClayRite** (clay inhibitor) is a highly concentrated KCL poly amine product that has been lab / field tested and proven to inhibit clays up to 50% more than others, with minimal effect on existing bentonite yield.
2. **DetRite** (drilling detergent) is among the highest quality, utilizing an extremely high concentration of proprietary surfactants.
3. **PacRite R** and PacRite LV is a 92% poly anionic cellulose.
4. **PolyRite** is a high-molecular-weight, anionic liquid polymer designed to aid in cuttings encapsulation and formation stabilization. It's also a viscosifier, friction reducer and flocculant.
5. **RiteMix** is an inorganic, synthetic gel strength modifier unequaled in performance by others.
6. **SureFlow Clay** is a 50/50 combo of DetRite 100% and ClayRite 100%.
7. **SureFlow** exhibits unparalleled gel strength, fluid loss prevention, and flow properties.
8. **ThinRite P / L** is a powder or liquid thinner / anti bit balling product.
9. **VisRite** is a powder form of a high-molecular-weight, anionic polymer designed to aid in cuttings encapsulation and formation stabilization. It's also a viscosifier, friction reducer and flocculant.
10. **ZanRite L** is powdered low end rheology modifier, used to enhance gel strengths and other rheological properties.
11. **ZanRite-L** is liquid low end rheology modifier, used to enhance gel strengths and other rheological properties.

Cross Reference

<u>DrilRite</u>	<u>Right Turn</u>	<u>Baroid</u>	<u>Cetco</u>	<u>Wyo-Ben</u>	<u>North Star</u>	<u>Di Corp</u>
Gel-Rite	Max Gel	Bore or Quick-Gel	Super Gel X	Extra High Yield	Turbo Gel	Diamond Gel
Tru-Bore	Max Bore	Quick Bore	Hydraul-EZ	Tru-Bore	Star-Gel	Tru-Bore
ClayRite	Clay Bomb	N/A	Clay Cutter	Clay Master	Clay-Star	Claymean L
DetRite	Det Con 1	Con Det	Drill Terge	Drill-X	Star-Det	Claysperse L
PacRite-R	Plat. Pac	Quick-Trol	Rel-Pak	Dril-Trol QD	Troll-Star DHV	Pro-Pac
PolyRite	Bore Commander	EZ Mud	Insta Vis Plus	Wyo-Vis	Star-Drill Liquid	Syn-Vis L
RiteMix	DrillPlex	None	None	None	None	None
SureFlow Clay	None	None	None	None	None	None
SureFlow	None	None	None	None	None	None
ThinRite-P or L	Thin Force	Aqua-Clear	Super Thin	Thinz-It	Thin-Star	Di-Sperse L
VisRite	Poly Plus RD	EZ Mud Gold	Insta Vis	Wyo-Vis	Vis-Star /Star-Drill Dry	Syn-Vis D
ZanRite	Duo-Vis	No Sag	Suspend-It	Borzan	Xan-Star	Poly-Zan
ZanRite-L	Sand Grenade	None	None	None	None	None

ClayRiteTM

ClayRite is 100% concentrated liquid clay inhibitor / surfactant designed and blended by DrillRite-Chem LLC. It is used in HDD to aid in reducing the clays tendency to swell during drilling operations and down time. After desired viscosity is achieved add 12.8 oz. per 500 gal of drilling fluid. Shipped in 1-gallon jugs pre- marked for proper mixing amounts.



Certified to
NSF/ANSI/CAN 60



Delta P

Delta P is a premium blend of fine size organic fibers and resilient particles for the prevention of seepage losses in fractured formations or gravel beds. Delta P incorporates a single sack solution to fluid losses. Shipped in 25 lb bags.



DetRiteTM

DetRite is a 100% concentrated drilling detergent designed and blended by DrilRite-Chem LLC. It reduces the surface tension and reduces sticking tendency of clay cuttings. This aids in prevention of bit balling, mud rings, and reduces torque. Shipped in 1 gal jugs pre-marked for mixing. Add 12.8 oz per 500 gal of drilling fluid.



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DR Bond

DrilRite

Wyo-Ben

MetaFlow

DR Bond	Solidibond	MF 006
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DR Bond is a blend of 75% superabsorbent polymers and 25% wood fiber that rapidly solidifies a wide range of high solids, liquid-bearing wastes with minimal amendment rates (0.25%-1% wt/wt). Mechanical mixing is advised.



Gel-Rite

Gel-Rite is a high-yield, 200 mesh, extended 200 yield sodium bentonite. It is designed to maintain borehole integrity in horizontally drilled boreholes. Gel-Rite is certified to NSF/ANSI Standard 60, Drinking Water Treatment Chemicals - Health Effects.

DrilRite	DCS	M-I	Baroid	Cetco	Wyo-Ben
Gel-Rite	Slick Gel	Max Gel	Quick-Gel	Super Gel-X	Extra High Yield



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PacRite-RTM

PacRite R: - is a 92% polyanionic cellulose water-soluble polymer designed to control fluid loss and increases viscosity in water-based drilling fluids. It creates a wall cake that aids in reducing the amount of fluid absorbed by the formation that could cause sloughing and pack off down hole. Assure PH is 9-9.5 with Soda Ash. Then slowly add ¼ to 2 lbs. in 100 gal of fluid, depending on desired fluid loss reduction. Shipped in 25 lb. pails.



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PacRite-LVTM

PacRite-LV: - is like **PacRite-R**, it is a 92% polyanionic cellulose water-soluble polymer designed to control fluid loss, however causing minimal increase viscosity in water-based drilling fluids. Mostly helpful when high viscosity is not desired while drilling clays. Assure PH is 9-9.5 with Soda Ash. Then add ¼ to 2 lbs. in 100 gal of fluid, depending on desired fluid loss reduction. Shipped 25 - 50 lb. units.



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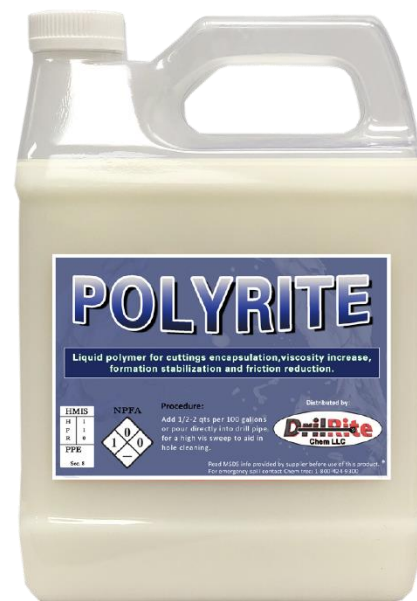


PolyRiteTM

PolyRite: is a high-molecular-weight, anionic liquid polymer designed to aid in cuttings encapsulation and formation stabilization. It's also a viscosifier, friction reducer and flocculant. Assure PH is 9-9.5 with Soda Ash and add 1 Qt per 250 gallons of fluid or pour a Qt directly in drill pipe to act as a sweep. Shipped 5 gal or 1 gal pails.



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NSF/ANSI/CAN 60



RiteMix™

RiteMix: is an inorganic, synthetic gel-strength modifier and shale stabilizer designed for water-based drilling fluids. RiteMix is a proprietary polymer technology that provides borehole stability and superior hole cleaning while drilling highly deviated or horizontal bores. This fluid is especially effective when drilling unconsolidated, unstable, stressed or faulted formations. This drilling fluid system is capable of remarkable solids suspension, yet exhibits extreme shear thinning flow characteristics. The result is a low-solids fluid system that drills like water, yet gels almost instantly forming a unique structure that carries and suspends cuttings in ‘near perfect transport’ while providing superior shale stabilizing characteristics.

Cross-Reference

DrilRite

M-I Swaco

RiteMixMS

DrilPlex
(similar)



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Remedy HDD

DrilRite

Baroid

Others

Remedy HDD	N-Seal	Magma Fiber
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Remedy HDD is a premium blend of medium size organic fibers and resilient particles for the prevention of seepage or severe fluid losses in fractured formations or gravel beds. DR Remedy incorporates a single sack solution to fluid losses. Shipped in 25 lb bags.



Rite Wipes

Rite Wipes: Extremely good for removing pipe dope (grease), oil, dirt etc. from hands or tools. 80 towels to a pail. 6 pails to a case.




SealRite

SealRite: is a polymer bead lost circulation material (LCM) for inadvertent returns. Can be placed directly into drill pipe at connection or mixed and immediately pumped from suction pit.

SealRite


Super absorbent polyacrylamide used for inadvertent returns.
Add directly into drill pipe on connections or in suction tank.



Signal Word: Warning

May cause skin and/or eye irritation. Wear hand, eye and face protection. If on skin: wash thoroughly with water. Wash contaminated clothing before reuse. If in eyes: Wash cautiously with water for several minutes. If ingested: Rinse mouth with water. If irritation occurs seek medical advice /attention.

Read SDS info provided by supplier before use.
Emergency spill contact Chemtrec 1-800-424-9300



HMIS	
H	1
F	1
R	0
PPE†	
†Sec. 8	

SureFlow ClayTM

Description

SureFlow Clay is a proprietary drilling fluid additive blended by DrillRite-Chem LLC for use in all clay formations. When added to drilling fluid slurry, it exhibits unparalleled clay inhibition, sticking reduction, and torque reduction. This product has been field tested with 100% satisfaction by multiple HDD companies in multiple applications throughout the U.S. This product is non-hazardous to the environment.

Mixing

SureFlow Clay is conveniently pre-mixed and packaged for ease of use. This allows for minimal drilling fluid mixing knowledge, labor, and waste. Use the pre-marked jug label for proper measuring.

Simply add 12.8 oz. of SureFlow Clay along with 1 Qt of PolyRite or VisRite per 250-gallons of water.

Or

After pre-mixing the appropriate amount of bentonite, add 12.8 oz. of SureFlow Clay per 250-gallons of fluid.

Typical Physical Properties

Form: orange colored liquid

Specific Gravity: 1.1

PH: in water 7.6 - 8.6

Solubility: (Water) Highly Dispersible



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SureFlowTM

Description

SureFlow is a proprietary drilling fluid additive blended by DrillRite-Chem LLC for use in sand, gravel, and rock formations. When added to a bentonite slurry, it exhibits unparalleled gel strength, fluid loss prevention, and flow properties. This product has been field tested with 100% satisfaction by multiple HDD companies in multiple applications throughout the U.S. This product is non-hazardous to the environment.

Mixing

SureFlow is conveniently pre-mixed and packaged for use with 500-gallon, 750-gallon, or 1000-gallon mix tanks. Also available in 25 Lb. bags for reclaimers. This allows for minimal drilling fluid mixing knowledge, labor, and waste.

Simply add 1-3 bags of bentonite per 500 gallons of water, depending on type of bentonite and ground conditions. Then add the appropriate sized SureFlow Sand container to the mix tank.

Typical Physical Properties

Form: white/ off white powder

Specific Gravity: 0.9

PH: in water 10-10.5

Solubility: Highly Dispersible



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ThinRite-P / ThinRite-L

ThinRite-Powder / ThinRite- Liquid: is sodium acid pyrophosphate with a pH of approximately 4.0 in a 10% solution. Used to aid with bit balling and mud rings. It is a dispersant (thinner) that aids in reducing flocculation of solids in the drilling fluid. Slowly add directly to fluid through hopper until desired results for fluid thinning or use directly in drill pipe to aid with bit balling. Shipped in 40 lb pails or 5 gal buckets.

Cross-Reference

DrilRite	DCS	M-I Swaco	Baroid	Cetco	Wyo-Ben
ThinRite	Ball Buster	Ring Free	Aqua Clear	Super Thin	Thinz-It

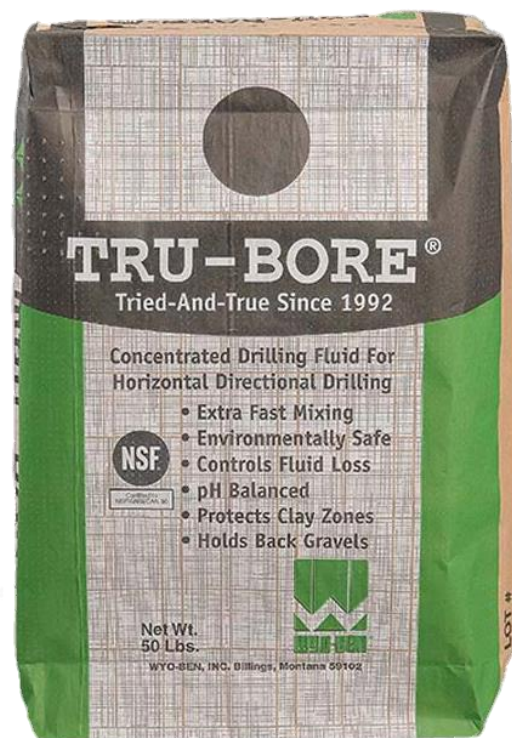


Tru-Bore

TRU-BORE® is a highly concentrated bentonite based drilling fluid designed for difficult drilling operations in both vertical and horizontal borings. It is extremely effective high performance viscosifier for horizontal drilling applications to maintain hole integrity during pullback. It is non-toxic and environmentally safe. Its fast-hydrating formula allows contractors to mix fast and build viscosity quickly. TRU-BORE® Tru-Bore is certified to NSF/ANSI Standard 60, Drinking Water Treatment Chemicals - Health Effects.



Certified to
NSF/ANSI/CAN 60



VisRiteTM

VisRite: is a high-molecular-weight, anionic powdered polymer designed to aid in cuttings encapsulation and formation stabilization. It's also a viscosifier, friction reducer and flocculant. Assure PH is 9-9.5 with Soda Ash and add 1/2 - 2 Qts per 100 gallons of fluid or place 1/2 a qt directly in drill pipe to act as a high vis sweep. Shipped 20 lb. units.



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ZanRite™

ZanRite: is a xanthan gum produced by bacterial fermentation or synthetically. Its primary function is to increase gel strength of the drilling fluid, thus suspending the cuttings in the hole for easier removal. It will also increase the fluids viscosity aiding in proper hole cleaning. Assure PH is 9-9.5 with Soda Ash. Then slowly add ¼ lb ZanRite per 100 gallons of fluid until desired viscosity or gel strength is reached. Shipped 25 lb. units.



ZanRite-L[®]

ZanRite-L is a high-quality 4.0 ppg liquid xanthan gum produced by bacterial fermentation or synthetically. Its primary function is to increase gel strength of the drilling fluid, thus suspending the cuttings in the hole for easier removal. It will also increase the fluids viscosity aiding in proper hole cleaning. Add a minimum of 1 Qt ZanRite-L per 250 gallons of fluid. Shipped in 1gallon jugs, 6 jugs to a case.

Cross-Reference

DrilRite

Right Turn

ZanRite-L

Sand Grenade

