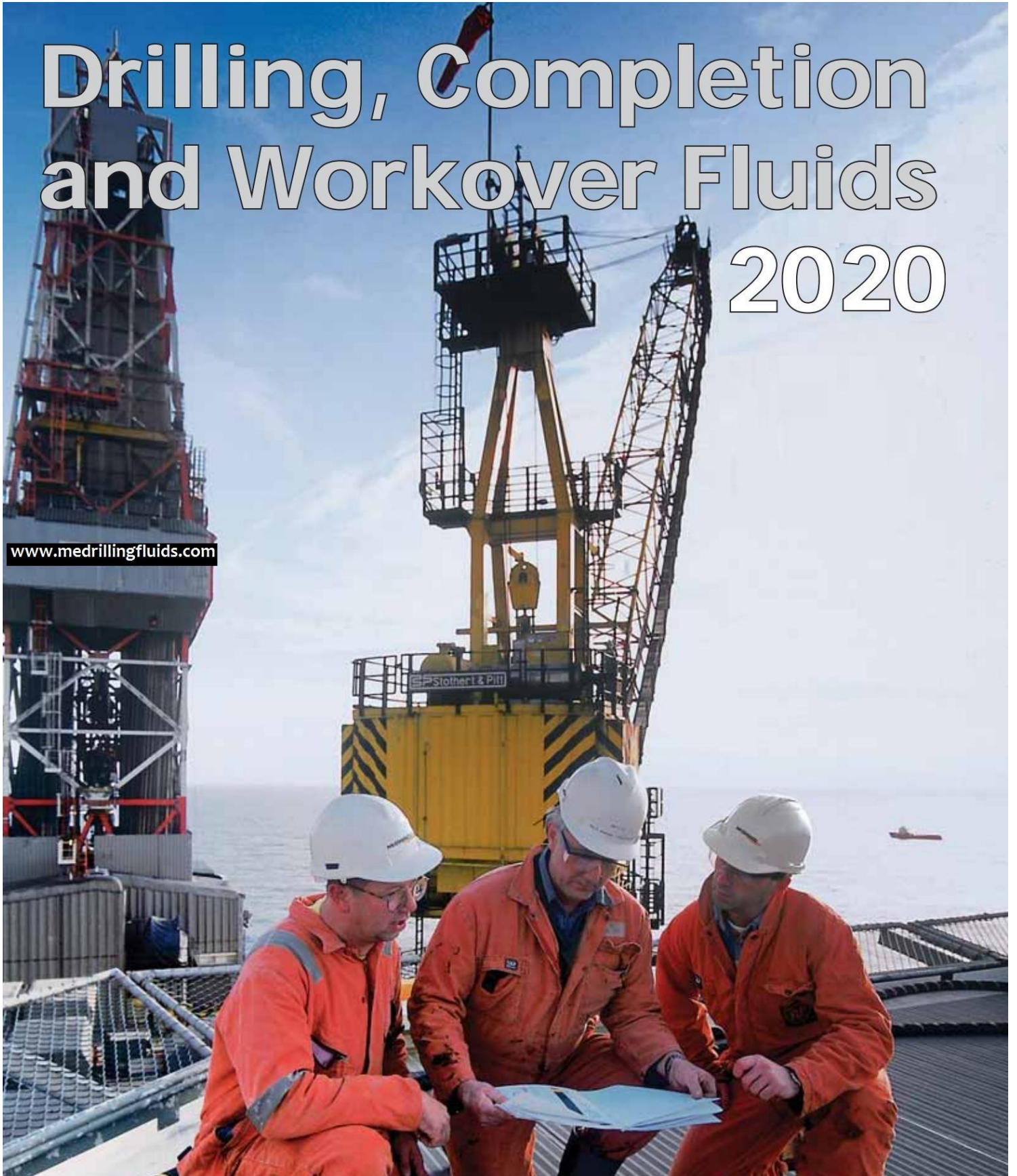


Drilling, Completion and Workover Fluids 2020

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Classifications of fluid systems

Descriptions of fluid-system classifications, product functions and source companies are listed on these pages. System descriptions and product definitions have been kept as simple as possible and, wherever practical, they reflect general industry practice and terminology consistent with descriptions adopted by the American Petroleum Institute (API) and the International Association of Drilling Contractors (IADC).

WATER-BASED SYSTEMS

Non-dispersed. These systems include spud muds, natural muds and other lightly treated systems that are generally used for shallow wells or top-hole drilling. Thinners and dispersants are not added to disperse drill solids and clay particles.

Dispersed. At greater depths, where higher densities are required, or where hole conditions may be problematic, muds are often dispersed, typically with lignosulfonates, lignites or tannins. These and similar products are effective deflocculants and filtrate reducers. Potassium-containing chemicals are frequently used to provide greater shale inhibition. Specialized chemicals are also added to adjust or maintain specific mud properties.

Calcium treated. Divalent cations, such as calcium and magnesium, when added to a freshwater drilling mud, inhibit formation clay and shale swelling. High levels of soluble calcium are used to control sloughing shale and hole enlargement, and to prevent formation damage. Hydrated lime (calcium hydroxide), gypsum (calcium sulfate) and calcium chloride are principal ingredients of calcium systems.

Calcium-treated muds resist salt and

anhydrite contamination but are susceptible to gelation and solidification at high temperatures.

High-performance water-based muds (HPWBM). These are usually reformulated polymer systems containing system-specific products to deliver shale stability, clay and cuttings inhibition, lubricity and high ROP, while minimizing bit balling/accretion and downhole torque problems. Some HPWBM use borehole stabilizing products to reduce pore pressure transmission similar to oil-based muds. Therefore, HPWBM are suitable to use whenever environmental liabilities and associated waste management costs limit the application of OBM/SBM.

Low solids. Listings include systems in which the amount (volume) and type of solids are controlled. Total solids should not range higher than about 6% to 10% by volume. Clay solids should be some 3% or less and exhibit a ratio of drilled solids to bentonite of less than 2:1. Low-solids systems typically use polymer additive as a viscosifier or bentonite extender and are non-dispersed. One primary advantage of low-solids systems is that they significantly improve drilling penetration rate.

Polymer/PA/PHPA. Mud incorporating generally long-chain, high-molecular-weight polymers are used to either encapsulate drill solids to prevent dispersion and coat shales for inhibition, or for increasing viscosity and reducing fluid loss. Various polymers are available for these purposes, including cellulose, natural gum-based products, and acrylamide. Frequently, inhibiting salts, such as KCl or NaCl, are used to provide greater shale stability in all of these fluids. These systems usually contain a minimum amount of bentonite and may be sensitive to divalent cations, such as calcium and magnesium. Most polymers have temperature limits below 300°F but, under certain conditions, may be used in hotter wells. A special class of water-based muds use partially hydrolyzed polyacrylamide (PHPA) as an additive, either to encapsulate

drill solids or to extend bentonite clay in a low-solids mud.

Saltwater systems. Several mud systems are included in this classification. Saturated salt systems are used to drill salt formations. Lower levels are usually referred to as brackish or seawater systems. Saltwater muds are usually prepared from brackish, seawater or produced-water sources and dry sodium chloride (or other salts, such as potassium chloride used for shale inhibition), are added to achieve desired salinity. Various specialty products, such as attapulgite, carboxymethyl cellulose (CMC), starch and others, are used to increase viscosity for hole-cleaning properties and to reduce fluid loss.

OIL-BASED MUD SYSTEMS

Oil-based systems are used in various applications, where fluid stability and inhibition are necessary, such as high-temperature wells, deep holes, and where sticking and hole stabilization are problems. They consist of two types of systems:

1. *Invert emulsion muds* are water-in-oil emulsions, typically with calcium chloride brine as the emulsified phase and oil as the continuous phase. They may contain as much as 50% brine in the liquid phase. Invert emulsion muds are a "relaxed" emulsion, and have lower electrical stabilities and higher fluid-loss values. Concentration of additives and brine content/salinity are varied to control rheological, filtration and emulsion stability.

2. *Oil-based muds* are formulated with only oil as the liquid phase and are often used as coring fluids. Although these systems pick up water from the formation, no additional water or brine is added. All oil systems require higher additional gelling agents for viscosity. Specialized oil-based mud additives include: emulsifiers and wetting agents (commonly fatty acids and amine derivatives) for viscosity; high-molecular-weight soaps; surfactants; amine-treated organic materials; organo clays and lime for alkalinity.

COMPLETION FLUIDS

Solids-free and typically formulated

Abbreviations of company names

ADM – Archer Daniels, Midland, Decatur, IL, USA, http://admworld.com	Croda – Croda (form. Uniqema Inc.), New Castle, DE, USA, www.uniqema.com	M&D – M&D Industries of Louisiana, Lafayette, LA, USA, www.ultrasealinc.com
AHC – Advance Hydrocarbon Corp., College Station, TX, USA	DSC – DSC Incorporated, The Woodlands, TX, USA, www.TORKease.com	MASI – Masi Technologies, LLC, Lafayette, LA, USA www.masitech.com
AMBAR – Ambar Lone Star Fluid Services, Lafayette, LA, USA, www.ambarlonestar.com	DX Oilfield – DX Oilfield Products, Inc., Dixie Chemical Co., Houston, TX, USA, www.dxoilfield.com	Mayco – Mayco-Wellchem, Inc., Houston, TX, USA, http://maycowellchem.com
AVA – Ava Drilling Fluids, S.p.A., Rome, Italy, www.avapsa.it	Deep South – Deep South Chemical, Inc., Lafayette, LA, USA, www.deep-south-chemical.com	Messina – Messina, Inc., Dallas, TX, USA, www.MessinaChemicals.com
Akzo – Akzo Nobel, Amersfoort, The Netherlands, www.cs.akzonobel.com	Densimix – Densimix Inc., Houston, TX, USA, www.densimix-eb.com	Montello – Montello, Inc., Tulsa, OK, USA, www.montelloinc.com
Alliance – Alliance Drilling Fluids, LLC, Midland, TX, USA, www.alliancecdf.com	Dow – The Dow Chemical Co., Midland, MI, USA, www.dow.com	NER – NER, L.L.C., Houston, TX, USA, www.piperubber.com
Alpine – Alpine Specialty Chemicals, Houston, TX, USA, www.alpinemud.com	Drill. Spec. – Drilling Specialties, The Woodlands, TX, USA, www.cpchem.com/drilling.asp	Nalco – Nalco Company Energy Chemicals, Sugar Land, TX, USA, www.nalco.com
Am. Gil. – American Gilsonite Co., Houston, TX, USA, www.americangilsonite.com	Drillchem – Drillchem Drilling Solutions, Lafayette, LA, USA, www.drillchem.com	Newpark – Newpark Drilling Fluids, Houston, TX, USA, www.newparkdf.com
Anchor – Anchor Drilling Fluids, Tulsa, OK, USA, www.anchorusa.com	Drillsafe – Drillsafe Janel Int., Ustron, Poland, www.drillsafe.com.pl	OLEON – Oleon, Oelegem, Belgium, www.oleon.com
Aqua-Clear – Aqua-Clear, Inc., Charleston, WV, USA, www.aquaclear-inc.com	Drill Tech – Drill Tech Environmental Services, Inc., Schriever, LA, USA	Pacer – Pacer Corporation, Custer, SD, USA, www.pacerminerals.com
Aqualon – Aqualon Oil and Gas Technologies, div. of Hercules, Inc., The Woodlands, TX, USA, www.aqualon.com	Drilpro – Drilpro Fluids Ltd., Houston, TX, USA	Progress – Progress Chemical Sales Co., Houston, TX, USA
Aquaness – Aquaness Chemical Division, div. of Baker Petrolite, Sugar Land, TX, USA, www.bakerhughes.com/bakerpetrolite	EMEC – EMEC Calkem UK Ltd., Kent, UK	Pure Fluids – Pure Fluids (previously World Fluids plc), Norfolk, UK
BARZAGHI – BARZAGHI srl, Arluno, Italy, www.barzaghi.com	Ecofluids – Ecofluids, Inc., Houston, TX, USA, www.ecofluids.net	Rapid – Rapid Drilling Fluids, Lafayette, LA, USA, www.rapidenergyservices.com
BASF – BASF Construction Polymers GmbH (form. Degussa), Trostberg, Germany, www.construction-polymers.com	Elementis – Elementis Specialities, Hightstown, NJ, USA, www.elementis-specialties.com	Rig-Chem – Rig-Chem, Houma, LA, USA, www.rigchem.com
BCI – Boysenblue/Celtec International, Inc., Lafayette, LA, USA, www.boysenblue.com	Elkem – Elkem AS, Materials, Kristiansand, Norway, www.wdp.elkem.com	Roquette – Roquette Frères, Lestrem, France, www.roquette.fr
BHDF – Baker Hughes Drilling Fluids, Houston, TX, USA, www.bakerhughes.com	Fluids Mgmt – Fluids Management, Houston, TX, USA, http://fluidsmgmt.com	Scomi – Scomi Oiltools, Kuala Lumpur, Malaysia, www.scomioiltools.com.my
BJ – BJ Services Co., Houston, TX, USA, www.bjservices.com	Forta – Forta Corporation, Grove City, PA, USA, www.super-sweep.com	So. Clay – Southern Clay Products, Gonzales, TX, USA, www.scprod.com
Baker Chem – Baker Chemicals, Inc., Houston, TX, USA, www.bcidf.com	Frontier – Frontier Research and Chemical Co., Houston, TX, USA, www.frontierchemical.com	Spec Prod – Special Products, div. of Champion Technologies, Houston, TX, USA, www.special-products.com
Baroid – Baroid Fluid Services, div. of Halliburton, Houston, TX, USA, www.halliburton.com	GEO – Geo Drilling Fluids, Bakersfield, CA, USA, www.geodf.com	Strata – Strata Control Services, Inc., Crowley, LA, USA, www.stratacontrol.com
Black Earth – Black Earth Humates Ltd., Alberta, Canada, www.blackearth.com	GPC – Grain Processing Corp., Muscatine, IA, USA, www.grainprocessing.com	Sun – Sun Drilling Products, Belle Chasse, LA, USA, www.sundrilling.com
Cabot – Cabot Specialty Fluids, The Woodlands, TX, USA, www.cabot-corp.com/cesium	General – General Supply Co., Bethany, OK, USA	Sulfa Treat – Sulfa Treat, business unit of M-I SWACO, Chesterfield, MO, USA, www.sulfatreat.com
Carless – Petrochem Carless Ltd., Romford, UK, www.petrochemcarless.com	Gumpro – Gumpro Chem, Bombay, India, www.gumprochem.com	TBC-Brin – TBC-Brinadd, Houston, TX, USA, www.tbc-brinadd.com
Cebo – Cebo Holland B.V., IJmuiden, The Netherlands, www.ceboholland.com	Hychem – Hychem, Inc., Tampa, FL, USA, www.hychem.com	TETRA – Tetra Technologies, The Woodlands, TX, USA, www.tetratec.com
Cesco – Cesco Chemicals, Inc., Lafayette, LA, USA, www.cescochem.com	Ibex – Ibex Chemicals, Inc., Houston, TX, USA, www.ibexchemicals.com	TXI – TXI Energy Services, Houston, TX, USA, www.txi.com
Chandler – Chandler Drilling Fluids, Inc., Houston, TX, USA	Impact – Impact Fluid Solutions, Houston, TX, USA, www.impact-es.com	Tolsa – Tolsa, S.A., Madrid, Spain, www.tolsa.com
Chemject – Chemject International, Inc., Houston, TX, USA, www.chemject.com	Integrity – Integrity Industries, Inc., Kingsville, TX, USA, www.integrityindustries.com	Turbo-Chem – Turbo-Chem International, Inc., Lafayette, LA, USA, www.turbochem.com
ChemSol – ChemSol, LLC, Minnetonka, MN, USA, www.chemsolusa.com	Kelco – Kelco Oilfield Group, a Huber Company, Houston, TX, USA, www.cpkelco.com	Venture – Venture Chemicals, Inc., Lafayette, LA, USA, www.venturechemicals.com
Chemstar – Chemstar Products Co., Minneapolis, MN, USA, http://chemstar.com	Kemira – Kemira Water Solutions, Inc. (form. Cytec), Springfield, MO, USA, www.kemira.com	WEC – Weatherford Engineered Chemistry, Houston, TX, USA, www.weatherford.com
Ciba – Ciba Specialty Fluids, Suffolk, VA, USA, www.cibasc.com	Kem-Tron – Kem-Tron, Inc., Stafford, TX, USA, www.kemtron.com	Well Flow – Well Flow International, L.L.C., Houston, TX, USA, www.well-flow.com
Cinicola – Eredi Dott. Settimio Cinicola Bentonite S.A.S., Milano, Italy, www.cinicola.net	LCM – Lost Circulation Management, LLC., Fulshear, TX, USA, lostcirculationmgmt.com	Wolff – Wolff Cellulosics LLC, Walsrode, Germany, www.wolff-cellulosics.com
Clariant – Clariant Corp., Sulzbach, Germany, www.clariant.com	LCS – Lost Circulation Specialists, Magnolia, TX, USA, www.magmafiber.com	Wyo-Ben – Wyo-Ben Corp., Billings, MT, USA, www.wyoben.com
Coatex – Coatex SAS, Genay, France, www.coatex.fr	L-USA – Lamberti USA, Hungerford, TX, USA, www.lambertiusa.com	Ziegler – Ziegler Chemical & Mineral, Jerico, NY, USA, http://zieglerchemical.com
Cognis – Cognis Deutschland GmbH & Co. KG, Düsseldorf, Germany, www.cognis.com	Lamberti – Lamberti S.p.A. Italy, Gallarate, Italy, www.lamberti.com	
Condat – Condat S.A., Chasse-sur-Rhône, France, www.condat.fr	Liquid Csg. – Liquid Casing, Inc., Houston, TX, USA, www.liquidcasing.com	
	Lubrizon – The Lubrizon Corp., Wickliffe, OH, USA, http://corporate.lubrizon.com	
	M-I SWACO – M-I Swaco, Houston, TX, USA, www.miswaco.com	

ed with aqueous salts, these fluids can achieve a wide density range by incorporating the appropriate salt (halides, bromides and formate brine) without using conventional weighting materials. They are usually designed to match specific reservoir criteria, taking into account critical factors like ESD, contamination risks and crystallization temperatures.

HPHT SPECIALTY PRODUCTS

Specifically designed for high-pressure, high-temperature and hostile environments where conventional drilling

fluids are impractical or uneconomical, they address safety and environmental compliance, lost circulation, decreased penetration rates, acid gases, and determination of downhole pressure, while allowing for more flexible tool and downhole-equipment selection.

RESERVOIR DRILL-IN FLUIDS (RDF)

These have the properties of a good drilling fluid and a completion fluid. Its primary attribute is the development of a filter cake which effectively prevents

formation damage and is easily removed, with filtrate and filter cake being compatible with the completion process. They are usually composed of biopolymers and bridging materials and are designed to match specific reservoir criteria.

SYNTHETIC FLUIDS (SBM)

These are designed to mirror oil-based mud performance, without the environmental hazards. Primary synthetic fluids are esters, ethers, poly alpha olefins and isomerized alpha olefins. They can be discharged offshore, and are non-sheening and biodegradable.

WELLBORE CLEAN-UP

These products are designed to remove mud and mud particles that are attached to the casing or become a part of the filter cake while drilling. They are usually part of aqueous and non-aqueous spacers and cleaners to ensure smooth displacement, optimal contact times and reduced disposal costs.

AIR, MIST, FOAM AND GAS

Four basic operations are included in this specialized category. These include: 1) Dry air drilling, which involves injecting dry air or gas into the wellbore at rates capable of achieving annular velocities that will remove cuttings; 2) Mist drilling, which involves injecting a foaming agent into the air stream that mixes with produced water and coats the cuttings to prevent mud rings, allowing drill solids to be removed; 3) Foam, which uses surfactants and possibly clays or polymers to form a high carrying-capacity foam; and 4) Aerated fluids, which rely on mud with injected air (which reduces hydrostatic head) to remove drilled solids from the wellbore.

FUNCTIONS OF ADDITIVES

The product function classifications are those generally accepted by the IADC Subcommittee on Drilling Fluids. Some additives have multiple uses, and for those a primary and two secondary function categories are listed.

Alkalinity, pH control additives. Products used to control the degree of acidity or alkalinity of a fluid include lime, caustic soda, soda ash and bicarbonate of soda, as well as other common acids and bases.

Bactericides. These are to prevent bacterial degradation of natural organic additives, such as starch and xanthan gum.



The technology of each of our product is independently developed, which is used to produce petroleum drilling chemicals and drilling fluids that meet international standards.

Our product line is supported by experienced technical service engineers and chemical experts.

We constantly strive to develop new products, improve existing products, and find solutions for drilling challenges in different regions. Our staff is constituted of experienced laboratory technicians and field engineers fully trained on how to use the products. We also offer in environmental and safety training for our product range.

Calcium reducers. Soda ash, bicarbonate of soda, caustic soda and certain polyphosphates are used to reduce calcium in seawater, treat cement contamination, and overcome contaminating effects of anhydrite and gypsum, both forms of calcium sulfates.

Corrosion inhibitors. pH control, along with an appropriate corrosion inhibitor, is used to control corrosion, neutralize hazardous acid gases and prevent scale. Common corrosion inhibitors are amine- or phosphate-based products, and other specially formulated chemicals.

Defoamers. Products are designed to reduce foaming action, particularly in brackish and saturated saltwater muds.

Emulsifiers. These products create a heterogeneous mixture (emulsion) of two insoluble liquids. They include fatty acids and amine-based chemicals for oil-based muds and detergents; soaps; organic acids; and water-based surfactants for water-based muds. Products may be anionic (negatively charged), non-ionic (neutral) or cationic (posi-

tively charged) chemicals, depending on the application.

Filtrate reducers. Bentonite clays, lignite, CMC (sodium carboxymethylcellulose), polyacrylate and pregelatinized starch all serve to decrease fluid loss, a measure of the tendency of the drilling fluid's liquid phase to pass through the filter cake into the formation.

Flocculants. These are used to increase viscosity for improved hole cleaning, to increase bentonite yield and to clarify or de-water low-solids fluids. Salt (or brine), hydrated lime, gypsum, soda ash, bicarbonate of soda, sodium tetraphosphate and acrylamide-based polymers may be used. They cause colloidal particles in suspension to group into bunches or "flocs," causing solids to settle out.

Foaming agents. Most often, these are chemicals that also act as surfactants (surface active agents) to foam in the presence of water. These foamers permit air or gas drilling through water-bearing formations.

Hydrate suppressants. These are usually alcohol-based additives, primarily for use in deepwater/coldwater/riser environments.

Lost circulation materials.

The primary function of a lost-circulation additive is to plug the zone of loss back in the formation, away from the borehole face, so that subsequent operations will not result in additional drilling-fluid losses. LCM is found in three forms: fiber, flake and granular/chemical thickening agents, such as ground nut hulls or water-swallowable, non-soluble, crystalline polymers. In the case of Massive Lost Circulation, two or more of these materials and/or more specialized thicken-

ing materials may be needed.

Lubricants/Pipe-freeing agents. Designed to reduce a drilling fluid's coefficient of friction, lubricants decrease torque and drag. Various oils, synthetic liquids, graphite, surfactants, glycols and glycerin and other chemicals are used for this purpose.

Shale control inhibitors. Sources of soluble calcium and potassium, as well as inorganic salts and organic compounds, provide shale control by reducing shale hydration. These products are used to prevent excessive wellbore enlargement and heaving or caving while drilling water-sensitive shales.

Surface active agents. Surfactants, as they are called, reduce interfacial tension between contacting surfaces (water/oil, water/solid, water/air, etc.). These may be emulsifiers, demulsifiers, wetting agents, flocculants or deflocculants, depending on the surfaces involved.

Temperature stability agents. These products increase rheological and filtration stability of drilling fluids exposed to high temperatures and those that continue to perform their intended purpose under these conditions. Various chemicals are used, including acrylic polymers, sulfonated polymers and copolymers, as well as lignite, lignosulfonate and tannin-based additives.

Thinners, dispersants. These chemicals modify the relationship between viscosity and percentage of solids in a drilling mud. They may be used, further, to reduce gel strength, increase a fluid's "pumpability," etc. Tannins (quebracho), various polyphosphates, lignite and lignosulfonate materials function as thinners, or as dispersants. The principal purpose of a thinner is to function as a deflocculant to reduce attraction (flocculation) of clay particles, which produces high viscosity and gel strengths.

Viscosifiers. Bentonite, CMC, attapulgite clays and polymers are used to increase viscosity for better hole cleaning and suspension of solids.

Weighting materials. Barite, iron oxides, calcium carbonates and similar products possessing high specific gravity are used to control formation pressures, check formation caving and facilitate pulling dry pipe.



With our expertise in drilling fluid manufacturing, support from R&D centers and testing facilities, and experienced engineers, we have consistently helped drilling mud service companies reduce costs by up to 30%.

Our services include:

- Evaluating and validation of drilling fluid and mud chemicals.
- Maintain and store all chemicals required for the project.
- Ensure timely delivery to the drilling site.
- Maintain a fully functional mud laboratory and team of chemical engineers who can test designed chemicals and mud formulations.
- Customerized blending & OEM.

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World Oil's Fluid Systems

Available from:	Systems	Description of material	Recommended for these systems					
			Water-based fluids	Non-dispersed Dispersed	Calcium-treated Polymer	Low solids	Saturated salt	Synthetic-based Oil-based
Ambar	DFX	Surfactant blend	X	X	X	X	X	
Ambar	ECOMUL	Diesel oil based mud						X
Ambar	ECOSYN	Synthetic based mud						X
Anchor	ANCO-LCP	HPWBM drilling fluid system	X	X	X	X	X	
Anchor	ANCO-MUL	Oil base mud system	X	X	X	X	X	
AVA	AVA FLEXDRILL	Customized, high performance inhibitive system	X	X	X	X	X	
AVA	AVA K142	Potassium acetate system	X	X	X	X	X	
AVA	AVA K157	Potassium formate system	X	X	X	X	X	
AVA	AVA KLM	Inhibitive system based on potassium, lime and AVALD2000	X	X	X	X	X	
AVA	AVA LAO	Olefin (LAO or IO) based system						X
AVA	AVA MMH	Mixed metal hydroxide system for large diameter sections	X	X	X	X	X	
AVA	AVABODRILL	Inhibitive polymer based system	X	X	X	X	X	
AVA	AVABDSINT	Ester based ILS system for environmentally sensitive areas						X
AVA	AVACAT	Inhibitive system cationic polymers	X	X	X	X	X	
AVA	AVACLVBLOCK	Inhibitive system	X	X	X	X	X	
AVA	AVACORE	100% base oil coring fluid						X
AVA	AVAFLOW	Lignosulfonate system	X	X	X	X	X	
AVA	AVAFULFLOW	Non-damaging drill-in fluid						X
AVA	AVAGELTERM	Environmentally friendly system for HPHT (up to 230°C)	X	X	X	X	X	
AVA	AVAGLYCO	Cloud point glycol system	X	X	X	X	X	
AVA	AVAHHSALT	Inhibitive system for gas hydrate suppression	X	X	X	X	X	
AVA	AVALEK	Potassium based lignosulfonate system	X	X	X	X	X	
AVA	AVAPAK	Potassium based system	X	X	X	X	X	
AVA	AVAPOLIVIS	PHPA system	X	X	X	X	X	
AVA	AVAPOLYOIL	Inhibitive system based on polyols	X	X	X	X	X	
AVA	AVAPOLYSALT	System for salt saturated sections	X	X	X	X	X	
AVA	AVAPOLYSIL	Silicate and potassium based system	X	X	X	X	X	
AVA	AVAREX	Environmentally friendly system for HPHT (up to 230°C)	X	X	X	X	X	
AVA	AVASILX	Silicate based system	X	X	X	X	X	
AVA	AVATRISOAM	Surf from recycling system						X
AVA	AVOL LIT	LI-IL oil based system						X
AVA	AVOL LIT 50	50/50 IE for environmentally sensitive areas						X
AVA	DYNAMULOG	Cross-linking system for lost circulation						X
Baroid	ACCOLADE	Low/no sag tendency syn. blend invert emulsion fluid						X
Baroid	BARADRIL-MAG	RDF containing sized magnesium oxide	X	X	X	X	X	
Baroid	BARADRIL-N	RDF containing sized calcium carbonate	X	X	X	X	X	
Baroid	BARA-PERFLUID	Pill for over-balanced perforating						X
Baroid	BARASLC	Liquid silicate based drtg. fluid	X	X	X	X	X	
Baroid	BAROD 100	All oil or all synthetic base drtg. fluid						X
Baroid	BITUMAX	Fluid specifically for drilling Heavy Oil producing formations						X
Baroid	BOREMAX	HPWB freshwater drtg. fluid	X	X	X	X	X	
Baroid	CLAY-MATCH	HPWB low-solids non-dispersed drtg. fluid	X	X	X	X	X	
Baroid	COREDRIIL-N	All oil or synthetic RDF & coring fluid						X
Baroid	CRYSTAL-DRIL	Clear water drtg. system	X	X	X	X	X	
Baroid	ENCORE	Low/no sag tendency syn. invert emulsion fluid						X
Baroid	ENRODMUL	Mineral oil based invert emulsion fluid						X
Baroid	EZ-PLUG	MLCM Acti soluble fiber/particle blend pill						X
Baroid	FLEX-PLUG	MLCM Mud-activated polymer pill						X
Baroid	FUSE-IT	MLCM Polymeric sealant						X
Baroid	GEM	Polyglycol enhanced water base drtg. fluid	X	X	X	X	X	
Baroid	HYDRO-GUARD	HPWB deep-water/d/shore drtg. fluid	X	X	X	X	X	
Baroid	HYDRO-PLUG	MLCM Blended fiber/particle/polymer pill						X
Baroid	INNOVERT	Low/no sag tendency mineral oil invert emulsion fluid						X
Baroid	INTEGRATE	Low/no sag tendency diesel oil invert emulsion fluid						X
Baroid	INVERTUL	Diesel oil based invert emulsion fluid						X
Baroid	K-SAFE	HPWB highly inhibitive, clay-free, seawater based drilling fluid	X	X	X	X	X	
Baroid	MAXDRIL-N	Mixed metal silicated based RDF						X
Baroid	MAXSEAL	MLCM Acti soluble, gelled polymer pill						X
Baroid	MYCROMUL	MLCM Acti soluble, gelled polymer pill						X
Baroid	N-FLOW	RDF containing filter cake breakers	X	X	X	X	X	
Baroid	N-SOLATE	Low thermal conductivity water-based insulating packer fluid; 275, 400, and 600 types						X
Baroid	N-SQUEEZE	MLCM Acti soluble, cross-linking polymer pill						X
Baroid	PERFORMADRIIL	HPWB drtg. fluid	X	X	X	X	X	
Baroid	PETROFREE	Ester based invert emulsion fluid						X
Baroid	PETROFREE LE	Linear alpha olefin based invert emulsion fluid						X
Baroid	PETROFREE LW	Low vis. ester based invert emulsion fluid						X
Baroid	PETROFREE SF	Internal olefin based invert emulsion fluid						X
Baroid	PIPE GUARD	Gelled invert emulsion fluid for pipe crossings						X
Baroid	POLYNOX	Lime based lignosulfonate drtg. fluid	X	X	X	X	X	
Baroid	QUIKDRIL-N	Solids-free, modified biopolymer RDF	X	X	X	X	X	
Baroid	RISER-VIS	Riser-less fluid for deepwater applications	X	X	X	X	X	
Baroid	SHEARDRIIL-N	Solids-free, optimized vs. RDF	X	X	X	X	X	
Baroid	SOLIDDRIL-N	RDF containing sized salt	X	X	X	X	X	
Baroid	STOP-FRAC	MLCM pelletized LCM pill						X
Baroid	SUPER-SATURATED RISER-VIS	Riser-less fluid supersaturated with salt for deepwater applications						X
Baroid	THERMA-DRIL	HPHT water based drtg. fluid system	X	X	X	X	X	
Baroid	THURO-FORCE OS	WBC High density displacement spacer for OBM/SBM						X
Baroid	THURO-FORCE W	WBC High density displacement spacer for WBM	X	X	X	X	X	
Baroid	THURO-KLEAN OS	WBC Spacer for removing OBM/SBM coating	X	X	X	X	X	
Baroid	THURO-KLEAN W	WBC Spacer for removing WBM coating	X	X	X	X	X	
Baroid	THURO-SCORUB OS	WBC Blended spacer for removing OBM/SBM coating	X	X	X	X	X	
Baroid	THURO-SCORUB W	WBC Alkaline spacer for removing WBM coating	X	X	X	X	X	
Baroid	THURO-SWEEP M	WBC High vis. displacement spacer	X	X	X	X	X	
Baroid	THURO-THIN OS	WBC OBM/SBM thinning & dispersing spacer	X	X	X	X	X	
Baroid	THURO-THIN W	WBC WBM thinning & dispersing spacer	X	X	X	X	X	
Baroid	WELLSET	Systematic LCM treatment to prevent lost circulation	X	X	X	X	X	
Baroid	XP-07	Linear alkane based invert emulsion fluid						X
BHDF	AQUA-DRILL	WBM system based on Cloud Point glycol D99 chemistry for clay inhibition & improved lubricity						X
BHDF	BIO-LOSE 90	Specialty formulation, acid-soluble, solids-free RDF system for fractured carbonate reservoirs	X	X	X	X	X	
BHDF	CARBO-CORE	OBM - 100% Diesel or mineral oil emulsion system						X
BHDF	CARBO-DRILL	Traditional invert emulsion system using diesel or mineral oil						X
BHDF	CLAY-TROL	WBM system using a polyamine to control clay hydration & swelling						X
BHDF	CLEAR-DRILL	Formate-based brine system for densely without weighting agents	X	X	X	X	X	
BHDF	GEOTEQ	Special synthetic GOM compliant emulsion for geochemical analysis						X
BHDF	MAGMA-DRILL	Diesel or mineral oil invert emulsion system for HPHT applications						X
BHDF	MAGMA-TEQ	Low toxicity mineral oil invert emulsion system for HPHT Application						X
BHDF	MICRO-CURE	Cased Hole Remediation						X
BHDF	MICRO-PRIME	High Efficiency Wellbore Cleaning Spacers						X
BHDF	MICRO-WASH	Open Hole Remediation System						X
BHDF	NEW-DRILL	WBM system using PAPA for encapsulation						X
BHDF	OMNIFLOW DF	Emulsion drill in fluid						X
BHDF	PERFFLOW	Custom mix of biopolymers & CaCO ₃ for specific reservoir conditions	X	X	X	X	X	
BHDF	PERFORMAX	HPWBM designed to emulate performance of emulsion muds						X
BHDF	PYRO-DRILL	WBM for HPHT & geothermal wells						X
BHDF	RHEO-LOGIC	Constant rheology Invert Emulsion						X
BHDF	SYN-TEQ	GOM compliant invert emulsion system using C16C19 IO						X
BHDF	TERRA-MAX	High Performance Water Based Mud for Onshore and Inland Water Applications						X
BHDF	UNICAL	Conventional WBM system run with lignosulfonate as a primary component						X
Drilchem	DRILL-SERGEANT	One sack HPWB system	X	X	X	X	X	
Drilchem	POLYK PSD	Proprietary inhibitive WBM	X	X	X	X	X	
Messina	KLEEN-DRILL	Non-damaging completion fluid system, CF	X	X	X	X	X	
Messina	DRILL-N-PAY	Non-damaging drill-in fluid package, CF	X	X	X	X	X	

Available from:	Systems	Description of material	Recommended for these systems					
			Water-based fluids	Non-dispersed Dispersed	Calcium-treated Polymer	Low solids	Saturated salt	Synthetic-based Oil-based
Messina	OILMUL	Diesel based invert drilling system						X
Messina	KLEEN-MUL	Low Tox & Synthetic (SBM) invert system						X
Messina	POLYTHERM	Versatile, HT WBM drilling system						X
Messina	REDI-COAT	PHPA system for shale stabilization	X	X	X	X	X	
M-I SWACO	APHRON ICSS	HP fluid uses "energized microbubbles" for UBD where lost circulation has been problematic						X
M-I SWACO	BREAKDOWN	Enzyme/chelant-base breaker system						X
M-I SWACO	BREAKFREE	Enzyme-base breaker system						X
M-I SWACO	BREAKLOOSE	Oxidizer-base breaker system						X
M-I SWACO	BREAKOUT	Combined internal breaker / external activated breaker system						X
M-I SWACO	DIPRO	High-density, low-solids, divalent brine reservoir RDF for minimal formation damage, easy cleanup						X
M-I SWACO	DRILPLEX	Diverse mixed metal oxide, WB drilling/RDF fluid, ideal as milling fluid, deepwater applications, CT	X	X	X	X	X	
M-I SWACO	DURATHERM	Low-cold, contaminant-resistant system for high-temperature drilling						X
M-I SWACO	ECOGREEN	Ester-base, biodegradable system for env. sensitive areas						X
M-I SWACO	ENVIROBERT	Chrome-free, env. advanced system for high-temperature drilling						X
M-I SWACO	ENVIROVERT	Chloride-free OBM with advantages of a conventional invert with lower disposal costs						X
M-I SWACO	FAZE-AWAY	Invert emulsion-base breaker system for FAZEPRO filter cakes						X
M-I SWACO	FAZEBREAK	Chelant-base breaker system for dispersion of residual filtercakes formed by FAZEPRO RDF system						X
M-I SWACO	FAZECLEAN	Acid-base breaker system for FAZEPRO filter cakes						X
M-I SWACO	FAZE-OUT	Delayed water-base breaker system for FAZEPRO filter cakes						X
M-I SWACO	FAZEPRO	Reversible invert emulsion fluid, converts between oil and water wet for filtercake and WBC						X
M-I SWACO	FLODENAP AP	Fluid system for remediation of casing pressure						X
M-I SWACO	FLOPRO CT	Polymer water-base system specifically formulated for coiled tubing operations						X
M-I SWACO	FLOPRO NT	Minimal solids, non-damaging WB fluid for the production zone, especially in horizontal wells						X
M-I SWACO	FLOPRO SF	Solids-free, non-damaging WBF for drill-in, suited for applications such as coiled tubing drilling						X
M-I SWACO	FLOTHRU	Water-base RDF that incorporates organophilic filtercake system						X
M-I SWACO	GLYDRIL	HP env. polyglycol system for snare control, ER deepwater and subsalt drilling						X
M-I SWACO	ISOTHERM	Oil-base insulated packer fluid						X
M-I SWACO	K-MAG	Potassium-base system for drilling troublesome shales	X	X	X	X	X	
M-I SWACO	M-T-THIN	Sag-stable, low-rheology SBM						X
M-I SWACO	NOVA-OUT	Water-base breaker system for NOVAPRO system						X
M-I SWACO	NOVAPLUS	Low-viscosity, internal-olefin base synthetic fluid for deepwater drilling and emulsion seals						X
M-I SWACO	NOVAPRO	Flat-rheology synthetic fluid especially suited for deepwater drilling						X
M-I SWACO	NOVATEC	Ultra-low-viscosity, LAO-base synthetic fluid system suited for deepwater drilling						X
M-I SWACO	NOVA-WAY	Invert emulsion breaker system for NOVAPRO system with greater delay and higher thermal stability						X
M-I SWACO	PARADRIL	Paraffin-base system engineered as an alternative to conventional or mineral oil-base systems						X
M-I SWACO	PARALAND	Paraffin-base drilling fluid designed for optimized land-base disposal of cuttings						X
M-I SWACO	PARAPRO	Paraffin-base reservoir drill-in fluid						X
M-I SWACO	PARATHERM	Paraffin-base high-temperature, anti-sag drilling fluid						X
M-I SWACO	POLY-PLUS	Polymer-base, PHPA system for improved cuttings encapsulation and shale stabilization	X	X	X	X	X	
M-I SWACO	RELJANT	Flat-rheology synthetic fluid especially suited for deepwater drilling						X
M-I SWACO	SAFE-LINK 110	Completion fluid pill built with 11.0 lb/gal CaCl ₂						X
M-I SWACO	SAFE-LINK 140	Completion fluid pill built with 14.0 lb/gal CaCl ₂						X
M-I SWACO	SAFETHERM	WB or water-miscible packer fluid customized for deepwater and permafrost applications						X
M-I SWACO	SAGDRIL	Tar-sands drilling fluid						X
M-I SWACO	SEAL-N-PEEL	Fluid loss control pill, as contingency for fluid loss control fluid to seal fracs production screens						X
M-I SWACO	SILDRIL	Silicate-base system for drilling water-sensitive shales						X
M-I SWACO	TURDRIL	All oil-base system designed for low-density drilling conditions						X
M-I SWACO	ULTRADRIL	High-performance water-base drilling fluid						X
M-I SWACO	VERSACLEAN	Mineral oil-base system for areas where diesel is prohibited						X
M-I SWACO	VERSACLEAN MKII	Variant of VERSACLEAN system						X
M-I SWACO	VERSADRIL	Diesel oil-base						

World Oil's Fluids

Available from:	Product Tradename	Description of material	Recommended for these systems						Product Function			
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Saturated salt	Synthetic-based	Air, mist, foam, gas	Primary	Secondary	Secondary
AVA	AVOIL FC	Lignite based fluid loss reducer					X		FR	E	SU	
AVA	AVOIL FR/HT	Asphalt based fluid loss reducer					X		FR	FR	HPHT	
AVA	AVOIL PE	Primary emulsifier					X		E	FR	SU	
AVA	AVOIL PE/ET	Primary emulsifier					X		E	FR	SU	
AVA	AVOIL SE	Secondary emulsifier					X		E	FR	TE	
AVA	AVOIL SE/ET	Secondary emulsifier					X		E	FR	TE	
AVA	AVOIL TN	OBM thinner					X		TH	FR	TE	
AVA	AVOIL TN/LT	Low toxicity OBM thinner					X		TH	FR	TE	
AVA	AVOIL VS	Rheology modifier					X		V	E	SU	
AVA	AVOIL VS/LT	Rheology modifier					X		V	E	SU	
AVA	AVOIL WA	Wetting agent					X		SU	E		
AVA	AVOIL WA/LT	Wetting agent					X		SU	E		
AVA	DE BLOCK SALT	Low toxicity weighted mud-free P	X	X	X	X	X	X	P			
AVA	DE BLOCK S/WB	Water-based P	X	X	X	X	X	X	P			
AVA	DEOXI SS	Oxygen remover	X	X	X	X	X	X	CO	CF		
AVA	DEOXY DEHA	Oxygen remover	X	X	X	X	X	X	CO	CF		
AVA	DOLSAI	Septilite clay	X	X	X	X	X	X	V			
AVA	DOLSAI B	Attapulgite clay	X	X	X	X	X	X	CO	CF		
AVA	DYNA RETARDER	Retarder for Dynapac	X	X	X	X	X	X	LO	WBC	TE	
AVA	DYNAPLUG	Fibers, polymers & cross-linker	X	X	X	X	X	X	LO	WBC	TE	
AVA	ECOL LUBE	Biodegradable LU	X	X	X	X	X	X	LU	FR		
AVA	ECOL LUBE HT	LU for geothermal wells	X	X	X	X	X	X	LU	FR	TE	
AVA	ECOL LUBE SIL	LU for silicate & potassium mud	X	X	X	X	X	X	LU	FR	TE	
AVA	GRANULAR F/M/C	LCM based on vegetable shell, F,M,C	X	X	X	X	X	X	LO			
AVA	INCORR	Water dispersible CO	X	X	X	X	X	X	CO	CF		
AVA	INCORR 2275	Amine-free CO & scale inhibitor	X	X	X	X	X	X	CO	CA	CF	
AVA	INCORR AC	CO in acid environment	X	X	X	X	X	X	CO	CF		
AVA	INCORR ACHT	CO in HT acid environment	X	X	X	X	X	X	CO	CF	HPHT	
AVA	INCORR HT	Water dispersible HT CO	X	X	X	X	X	X	CO	HPHT	CF	
AVA	INCORR OS	Oil soluble CO	X	X	X	X	X	X	CO			
AVA	INTALOW	Acid soluble marble flour	X	X	X	X	X	X	LO	RDF		
AVA	INTASOL C4000	Specialty ground calcium carbonate	X	X	X	X	X	X	LO	RDF		
AVA	INTASOL F/M/C	Specialty ground calcium carbonate, F,M,C	X	X	X	X	X	X	LO	RDF		
AVA	INTASOL FLAKE F/M/C	Specialty sized flake calcium carbonate	X	X	X	X	X	X	LO	RDF		
AVA	INTASOL ME F/M/C	Metamorphic calcium carbonate, F,M,C	X	X	X	X	X	X	LO	RDF		
AVA	POLICELL RG	Technical grade PAC regular	X	X	X	X	X	X	V	FR	SH	
AVA	POLICELL SL	Technical grade PAC low vis	X	X	X	X	X	X	FR	SH		
AVA	POLIFLUID	Synthetic chrome-free TH	X	X	X	X	X	X	TH	TE	FR	
AVA	POLIVIS	Modified liquid PHPA	X	X	X	X	X	X	SH	V	HPHT	
AVA	POLIVIS PWD	Encapsulated polymer (powder)	X	X	X	X	X	X	SH	V	HPHT	
AVA	SAND SEAL F/C	Sealing agent for pay zone LO, fine, coarse	X	X	X	X	X	X	LO	FR		
AVA	STEARALL LOD	D compound for dispersed muds	X	X	X	X	X	X	D			
AVA	TCS 30	Non ionic drilling mud surfactant	X	X	X	X	X	X	SU	LU	TE	
AVA	VICTOSAL	Modified resistant starch	X	X	X	X	X	X	FR	SH		
AVA	VICTOSAL MMH	Modified resistant starch for MMH system	X	X	X	X	X	X	FR	SH		
AVA	VISCO B3	Pure PAC regular	X	X	X	X	X	X	V	FR	SH	
AVA	VISCO B3 EHV	Pure PAC extreme high vis	X	X	X	X	X	X	V	FR	SH	
AVA	VISCO B3 LOD	Liquid poly-anionic polymer	X	X	X	X	X	X	V	FR	SH	
AVA	VISCO B3 SL	Pure PAC super low	X	X	X	X	X	X	FR	SH		
AVA	VISCO B3 XLV	Pure PAC extreme low	X	X	X	X	X	X	FR	SH		
AVA	VISCO ACT	Biopolymer	X	X	X	X	X	X	V	SH	RDF	
AVA	VISCO DIF	Blend of biopolymer for DIF	X	X	X	X	X	X	V	SH	RDF	
AVA	VISCO EHV3000	Extreme high V for spud mud	X	X	X	X	X	X	V	SH		
AVA	VISCO X	Biopolymer	X	X	X	X	X	X	V	SH		
AVA	VISCO XC	Biopolymer	X	X	X	X	X	X	V	SH		
AVA	VISCO XC84	Pure xanthan gum polymer	X	X	X	X	X	X	V	SH		
AVA	VISCO XCD	Pure dispersible xanthan gum polymer	X	X	X	X	X	X	V	SH		
AVA	AVA BRIDGEPAK C/M	Blend of granular and fibrous bridging agents	X	X	X	X	X	X		MLCM		
AVA	AVA PHAPGUNK	PHPA powder	X	X	X	X	X	X		MLCM	SH	
AVA	AVA QUICKDRILL	Blend of natural compounds	X	X	X	X	X	X		SH		
AVA	AVA X-PRIMA	Lost circulation squeeze	X	X	X	X	X	X		MLCM		
AVA	AVA DEFOAM	Alcohol based defoamer	X	X	X	X	X	X		D		
AVA	AVA-FS	Biluminus / bentonite fluid loss additive	X	X	X	X	X	X		FR	SH	
AVA	AVAGLYCO HC	High cloud point glycol	X	X	X	X	X	X		SH	LU	HS
AVA	AVAGLYCO LC	Low cloud point glycol	X	X	X	X	X	X		SH	LU	HS
AVA	AVAPOLY PGL	Polyglycol	X	X	X	X	X	X		SH	LU	
AVA	AVATRACER	Potassium iodide tracer	X	X	X	X	X	X		SH	LU	HS
AVA	ECOLUBE LG	Non-toxic lubricant	X	X	X	X	X	X		LU	SH	
AVA	VICTOMOD	High temperature modified starch	X	X	X	X	X	X		FR		
AVA	VISCO WEL	High temperature low-end viscosifier	X	X	X	X	X	X		V		
AVA	VISCO MED	Medium viscosity pure PAC	X	X	X	X	X	X		FR	V	SH
AVA	VISCO PLUS	Low viscosity pure PAC	X	X	X	X	X	X		FR	SH	
Akzo	GABROIL HV	Polyanionic cellulose, tech grade, high visc.	X	X	X	X	X	X		FR	V	SH
Akzo	GABROIL LV	Polyanionic cellulose, tech grade, low visc.	X	X	X	X	X	X		FR	SH	LU
Akzo	GABROIL PAC/HIVS	Polyanionic cellulose (PAC), tech grade, high viscous, DS > 1	X	X	X	X	X	X		FR	V	SH
Akzo	GABROIL PAC/LOVIS	Polyanionic cellulose (PAC), tech grade, low viscous, DS > 1	X	X	X	X	X	X		FR	SH	LU
Akzo	GABROSA EHV Tech	Carboxymethyl cellulose (API 13A)	X	X	X	X	X	X		FR	V	SH
Akzo	GABROSA HV Tech	Carboxymethyl cellulose (non-API)	X	X	X	X	X	X		FR	V	SH
Akzo	GABROSA LV Tech	Carboxymethyl cellulose (API 13A)	X	X	X	X	X	X		FR	SH	LU
Akzo	STAFLO EXLO	Polyanionic cellulose (PAC), pure grade	X	X	X	X	X	X		FR	SH	LU
Akzo	STAFLO REGULAR	Polyanionic cellulose (PAC), pure grade	X	X	X	X	X	X		FR	V	SH
Alliance	ALL ANTI-FOAM	Anti-foamer	X	X	X	X	X	X		D		
Alliance	ALL CASE	Sized LCM	X	X	X	X	X	X		LO	LU	
Alliance	ALL CMS	Modified polymer	X	X	X	X	X	X		FR		

Available from:	Product Tradename	Description of material	Recommended for these systems						Product Function			
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Saturated salt	Synthetic-based	Air, mist, foam, gas	Primary	Secondary	Secondary
Alliance	ALL CMS	Modified polymer	X	X	X	X	X	X				FR
Alliance	ALL DEFOAM	Defoamer	X	X	X	X	X	X				D
Alliance	ALL DRILL FW	Polymer viscosifier	X	X	X	X	X	X				V
Alliance	ALL DRILL P	Polymer viscosifier	X	X	X	X	X	X				V
Alliance	ALL FA HB 30	Corrosion inhibitor	X	X	X	X	X	X				CO
Alliance	ALL FLOC	Cationic flocculant	X	X	X	X	X	X				FL
Alliance	ALL FOAM 475B	Brine foamer	X	X	X	X	X	X				X
Alliance	ALL DB 60	Biocide	X	X	X	X	X	X				B
Alliance	ALL LIQUA THIN	Low MW polymer thinner	X	X	X	X	X	X				TH
Alliance	ALL LUBE	Water soluble ester	X	X	X	X	X	X				LU
Alliance	ALL PAC	Polyanionic cellulose	X	X	X	X	X	X				V
Alliance	ALL POLY LUBE	Mineral oil	X	X	X	X	X	X				LU
Alliance	ALL SEAL	Cellulose particles	X	X	X	X	X	X				LO
Alliance	ALL SHALE HB	Shale inhibitor	X	X	X	X	X	X				SH
Alliance	ALL SURFAK S	Surfactant	X	X	X	X	X	X				SH
Alliance	ALL TROL	Water dispersible gilsonite	X	X	X	X	X	X				SH
Alpine	BLACK FURY	Liquid dispersed gilsonite	X	X	X	X	X	X				X
Alpine	CELL-U-SEAL	Cellulose fiber	X	X	X	X	X	X				SH
Alpine	CLEAN SPOT	Env. safe spotting fluid	X	X	X	X	X	X				P
Alpine	DRILL BEADS	Co-polymer plastic beads	X	X	X	X	X	X				LU
Alpine	FORM-A-SET	Cross link polymer squeeze pill	X	X	X	X	X	X				X
Alpine	FORM-A-SQUEEZE	High fluid loss squeeze pill	X	X	X	X	X	X				X
Alpine	PA-10	Lubricant-ROP enhancer	X	X	X	X	X	X				X
Alpine	QUICK SLIDE	Lubricant bead suspension	X	X	X	X	X	X				X
Alpine	SACK BLACK	Coupled gilsonite	X	X	X	X	X	X				X
Alpine	TRACER BEADS	Macro-porous translucent beads	X	X	X	X	X	X				X
Am. Gil.	BOREPLATE	Water dispersible, envr. safe shale-control agent, Microtox passed	X	X	X	X	X	X				SH
Am. Gil.	GILSONITE	Natural, envr. safe filtration control agent	X	X	X	X	X	X				FR
Am. Gil.	SUPER HT	Natural, envr. safe, extremely HT (+500°F) filtration control agent	X	X	X	X	X	X				FR
Am. Gil.	SUPER ULTRA HT	Natural, envr. safe, extremely HT (+550°F) filtration control agent	X	X	X	X	X	X				FR
Am. Gil.	ULTRA HT	Natural, envr. safe HT (+450°F) filtration control agent	X	X	X	X	X	X				FR
Anchor	ANCO 2000 I	Polyglycol inhibitor blend	X	X	X	X	X	X				X
Anchor	ANCO BAR	Barite	X	X	X	X	X	X				W
Anchor	ANCO BX	Bentonite extender	X	X	X	X	X	X				V
Anchor	ANCO CAB	Sized calcium carbonate	X	X	X	X	X	X				W
Anchor	ANCO CI-300A	Alkyl phosphate with scale inhibitor	X	X	X	X	X	X				X
Anchor	ANCO COAT WS	Water-soluble filming amine corrosion inhibitor	X	X	X	X	X	X				X
Anchor	ANCO DD	Drilling detergent	X	X	X	X	X	X				X
Anchor	ANCO DEFOAM A	Alcohol-base defoamer	X	X	X	X	X	X				D
Anchor	ANCO DEFOAM S	Silicone-base defoamer	X	X	X	X	X	X				D
Anchor	ANCO DF-150	Foaming agent-fresh water	X	X	X	X	X	X		</		

World Oil's Fluids

Available from:	Product Tradename	Description of material	Recommended for these systems						Product Function				
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary	Secondary
Aqua-Clear	AIRFOAM B	Saltwater FO							X	FO			
Aqua-Clear	AIRFOAM HD	Oil FO							X	FO			
Aqualon	AQUACELR-110	Low visc. carboxymethyl cellulose	X	X	X				X	FR	SH	LU	
Aqualon	AQUACELR-190	High visc. carboxymethyl cellulose	X	X	X				X	FR	V	SH	
Aqualon	AQUAFLO HV	High visc. standard polyanionic cellulose	X	X	X	X			X	FR	V	SH	
Aqualon	AQUAFLO LV	Low visc. standard polyanionic cellulose	X	X	X	X			X	FR	SH	LU	
Aqualon	AQUALON AQU D-4146	High visc. DISPERSIBLE polyanionic cellulose	X	X	X	X			X	FR	V	SH	
Aqualon	AQUALON SODIUM FORMATE	Formate brine				X				CF	RDF	SH	
Aqualon	AQUIAPAC REGULAR	High visc. premium polyanionic cellulose	X	X	X	X			X	FR	V	SH	
Aqualon	AQUIAPAC LV	Low visc. premium polyanionic cellulose	X	X	X	X			X	FR	SH	LU	
Aqualon	AQUIAPAC ULV	Ultra-low visc. premium polyanionic cellulose	X	X	X	X			X	FR	SH	LU	
Aqualon	AQUIAPAC LIQUID	Eco-friendly anhydrous suspension AQUIAPAC polyanionic cellulose	X	X	X	X			X	FR	V	SH	
Aqualon	EcoDura FLA 3962	PLOMOR aqueous suspension of Natrosol 250 LR	X	X	X				X	FR	RDF	SH	
Aqualon	EcoDura FLA 3963	PLOMOR aqueous suspension of Natrosol 180 GXR	X	X	X				X	FR	RDF	SH	
Aqualon	EcoDura FLA 4053	PLOMOR aqueous suspension of Natrosol 250 JR	X	X	X				X	FR	RDF	SH	
Aqualon	EcoDura TA 3964	PLOMOR aqueous suspension of Natrosol HI-VIS	X	X	X				X	V	FR	CF	
Aqualon	EcoDura TA 4226	PLOMOR aqueous suspension of Natrosol 210 HHX	X	X	X				X	V	FR	CF	
Aqualon	EcoDura TA 4282	PLOMOR aqueous suspension of Natrosol HI-VIS	X	X	X				X	V	FR	CF	
Aqualon	EcoDura TA 4283	PLOMOR aqueous suspension of Natrosol 210 HHX	X	X	X				X	V	FR	CF	
Aqualon	GALACTASOL 251	High visc. straight guar	X	X	X	X			X	V	FR	WBM	
Aqualon	GALACTASOL 252	Straight guar	X	X	X	X			X	V	FR	WBM	
Aqualon	GALACTASOL 267	Diesel slurriable guar	X	X	X	X			X	V	FR	WBM	
Aqualon	GALACTASOL 271	Self-hydrating dispersible straight guar	X	X	X	X			X	V	FR	WBM	
Aqualon	GALACTASOL 283	Fast hydrating high visc. guar	X	X	X	X			X	V	FR	WBM	
Aqualon	GALACTASOL 284	Diesel slurriable Fast hydrating high visc. guar	X	X	X	X			X	V	FR	WBM	
Aqualon	GALACTASOL 467	Diesel slurriable hydroxypropyl guar	X	X	X	X			X	V	FR	WBM	
Aqualon	GALACTASOL 474	High visc. hydroxypropyl guar	X	X	X	X			X	V	FR	CF	
Aqualon	GALACTASOL 476	Buffered high visc. hydroxypropyl guar	X	X	X	X			X	V	FR	CF	
Aqualon	GALACTASOL 477	Self hydrating dispersible hydroxypropyl guar	X	X	X	X			X	V	FR	CF	
Aqualon	GALACTASOL 638	Fast hydrating high visc. Carboxymethyl hydroxypropyl guar				X			X	V	FR	SH	
Aqualon	GALACTASOL 650	Carboxymethyl hydroxypropyl guar				X			X	V	FR	SH	
Aqualon	GALACTASOL 651	Carboxymethyl hydroxypropyl guar				X			X	V	FR	SH	
Aqualon	GALACTASOL 653	Diesel slurriable carboxymethyl guar				X			X	V	FR	SH	
Aqualon	KLUCEL H OIL	Suspension agent for solvent-based systems	X	X	X	X			X	V			
Aqualon	NATROSOL 180 GXR	Low visc. hydromethyl cellulose	X	X	X				X	FR	RDF	SH	
Aqualon	NATROSOL 210 HHX	Ultra high visc. and fast hydrating hydroxyethyl cellulose	X	X	X				X	V	CF	SH	
Aqualon	NATROSOL 250 JR	Low visc. hydromethyl cellulose	X	X	X				X	FR	RDF	SH	
Aqualon	NATROSOL 250 LR	Low visc. hydromethyl cellulose	X	X	X				X	FR	RDF	SH	
Aqualon	NATROSOL 250 EXR	Low visc. hydromethyl cellulose	X	X	X				X	FR	RDF	SH	
Aqualon	NATROSOL 250 GXR	Low visc. hydromethyl cellulose	X	X	X				X	FR	RDF	SH	
Aqualon	NATROSOL 250 HHR-P	Ultra high visc. hydroxyethyl cellulose	X	X	X	X			X	V	CF	SH	
Aqualon	NATROSOL HI-VIS	Ultra high visc. hydroxyethyl cellulose	X	X	X	X			X	V	CF	SH	
Aqualon	NATROSOL LIQUID HHR-P	Eco-friendly anhydrous suspension of Natrosol 250 HHR-P	X	X	X	X			X	V	CF	LU	
Aqualon	NATROSOL LIQUID HHX	Eco-friendly anhydrous suspension of Natrosol 210 HHX	X	X	X	X			X	V	CF	LU	
Aqualon	NATROSOL LIQUID HI-VIS	Eco-friendly anhydrous suspension of Natrosol HI-VIS	X	X	X	X			X	V	CF	LU	
Aqualon	NATROSOL LIQUID 180 GXR	Eco-friendly anhydrous suspension of Natrosol 180 GXR	X	X	X	X			X	FR	RDF	LU	
Aqualon	XtraDura FLA 3766	Liquid synthetic fluid loss additive - anionic synthetic co-polymer	X	X	X	X			X	FR	HPHT	SH	
Aqualon	XtraDura FLA 3767	Dry universal fluid loss additive - anionic synthetic co-polymer	X	X	X	X			X	FR	HPHT	SH	
Aqualon	XtraDura GMA 4176	Liquid synthetic gas migration control additive	X	X	X	X			X	FR	HPHT	SH	
Aqualon	XtraDura GMA 4176P	Dry synthetic gas migration control additive	X	X	X	X			X	FR	HPHT	SH	
Aquaness	AQUAMUL 854	Emulsifier and wetting agent				X				E	FR	SU	
Aquaness	AQUET 943	Amphoteric foaming agent							X	FO			
Aquaness	AQUET TD-500K	Anionic foaming agent							X	FO			
Aquaness	ARDRIIL CLA-BAN	Cationic polyamine shale stabilizer				X	X		X	SH	FL		
Aquaness	CR080671	Filming amine CO	X	X	X	X	X		X	CO			
Aquaness	CRW-132	Packer fluid CO	X	X	X	X	X		X	CO			
Aquaness	CRW80669	Corrosion inhibitor	X	X	X				X	CO			
Aquaness	DFW80521	Defoamer	X	X	X	X	X		X	D			
Aquaness	DRILLAD 100	Defoamer	X	X	X	X	X		X	D			
Aquaness	DRILLAD 101	Lubricant for WBM	X	X	X	X	X		X	LU			
Aquaness	DRILLAD 103	Spotting fluid additive	X	X	X	X	X		X	P			
Aquaness	DRILLAD104	Spotting fluid additive	X	X	X	X	X		X	P			
Aquaness	DRILLAD 105	Lubricant for WBM	X	X	X	X	X		X	LU	CF		
Aquaness	DRILLAD 106	Brine lubricant	X	X	X	X	X		X	LU	CF		
Aquaness	DRILLAD 108	Drilling fluid detergent	X	X	X	X	X	X	X	SU			
Aquaness	DRILLAD 201	Completion brine non-emulsifier				X				SU	CF		
Aquaness	DRILLAD 2903	High temperature emulsifier				X			X	E	FR	TE	
Aquaness	DRILLAD 600	Rheology modifier				X	X		X	V			
Aquaness	DRILLAD 701	Concentrated dispersant				X	X		X	TH			
Aquaness	DRILLAD 702	Dispersant				X	X		X	TH			
Aquaness	DRILLAD 704	Solids wetting agent				X			X	TH			
Aquaness	DRILLAD 705	Solids wetting agent				X	X		X	TH			
Aquaness	DRILLAD 863	Supplemental emulsifier				X			X	E	FR	TE	

A = Alkalinity (pH control)
 B = Bactericides
 CA = Calcium removers
 CF = Completion fluid
 CO = Corrosion inhibitors
 D = Defoamers
 E = Emulsifiers
 FR = Filtration reducers
 FL = Flocculants
 FO = Foaming agents
 HPHT = High pressure/high temperature
 HPWB = High performance, water-based

HS = Hydrate suppressant
 LO = Lost circulation additives
 LU = Lubricants
 MLCM = Massive lost circulation material
 P = Pipe-freeing agents
 RDF = Drill-in fluid

SB = Synthetic-based
 SH = Shale-control agents
 SU = Surface-active agents
 TE = Temperature stability agents
 TH = Thinners, dispersants
 V = Viscosifiers

W = Weighting materials
 WBC = Wellbore cleanout
 WBM = Water based mud

Available from:	Product Tradename	Description of material	Recommended for these systems						Product Function				
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary	Secondary
Aquaness	DRILLAD 866	Supplemental emulsifier							X	FR	TE		
Aquaness	DRILLAD 900	Fluid loss control additive							X	FR	E	TE	
Aquaness	DRILLAD DME	Drilling mud emulsifier	X	X	X	X	X		X	FR	SU	LU	
Aquaness	DRILLAD DMIS	Drilling mud surfactant	X	X	X	X	X		X	SU	SH	LU	
Aquaness	KD-40	Corrosion inhibitor	X	X	X	X	X		X	CO			
Aquaness	KD-740	Corrosion inhibitor	X	X	X	X	X		X	CO			
Aquaness	MAGNACIDE 575	Biocide	X	X	X	X	X		X	B			
Aquaness	OSW80490	Oxygen scavenger	X	X	X	X	X		X	CO			
Aquaness	ARLOX HS700	Hydrogen sulphide scavenger	X	X	X	X	X		X	CO			
Aquaness	ARLOX HS82112E	Hydrogen sulphide scavenger	X	X	X	X	X		X	CO	CF	CO	
Aquaness	SCW8263	Completion brine scale inhibitor				X				CO	CF		
Aquaness	X-CIDE 102	Aldehyde-based biocide	X	X	X	X	X		X	B			
Aquaness	X-CIDE 102W	Winterized aldehyde-based biocide	X	X	X	X	X		X	B			
Aquaness	X-CIDE 207	Solid biocide	X	X	X	X	X		X	B			
BARZAGHI	GELOGUM CM55	Powdered shale inhibitor	X	X	X	X	X		X	SH	FR		
BARZAGHI	GELOGUM PAC LV	Polyanionic cellulose (PAC), pure grade	X	X	X	X	X		X	FR	SH	LU	
BARZAGHI	GELOGUM PAC ULV	Polyanionic cellulose (PAC), pure grade	X	X	X	X	X		X	FR	SH	LU	
BARZAGHI	GELOGUM LVT	Carboxymethyl cellulose (API 13A)	X	X	X	X	X		X	FR	SH	LU	
BARZAGHI	GELOGUM HVT	Carboxymethyl cellulose (API 13A)	X	X	X	X	X		X	FR	SH	LU	
BARZAGHI	BIOGUM P	Dispersible guar product	X	X	X	X	X		X	V			
BARZAGHI	CARBOGUM CXX	Xanthan gum based polymer	X	X	X	X	X		X	V			
BARZAGHI	CARBOGUM XX	Xanthan gum	X	X	X	X	X		X	V			
BASF	BIOVIS	Temp. stable biopolymer	X	X	X	X	X		X	V	TE	FR	SH
BASF	POLYDRILL	High temp. stable fluid loss polymer	X	X	X	X	X		X	V	TE	FR	SH
BASF	POLYTHIN	High temp. defloculant, TH	X	X	X	X	X		X	V	TE	FR	
BASF	POLYVIS II	Inorganic drilling fluid V	X	X	X	X	X		X	V			
BASF	DC 150	Attapulgite				X				V			
BASF	BASODRILL 2000	Shale Inhibitor	X	X	X	X	X		X	SH	LU		
BASF	BASOPUR DF5	Defoamer	X	X	X	X	X		X	D			
BASF	PBISA	Emulsifier				X				SU			
BASF	STYROFAN	Latex polymer	X	X	X	X	X		X	FR			
BCI	BLEN-CARB	Calcium carbonate	X	X	X	X	X		X	LO	P		
BCI	BLEN-FYBER	High-strength micronized cellulose fiber to prevent/curse seepage loss	X	X	X	X	X		X	LO	P		
BCI	BLEN-NO FOAM	Defoamer	X	X	X	X	X		X	D			
BCI	BLEN-PLEX	Multivalent ion, polymer crosslinking agent	X	X	X	X	X		X	LO	A		
BCI	BLEN-PLUG	Mixed coarse cellulose fibers	X	X	X	X	X		X	LO			
BCI	BLEN-SEAL	Preabsorbed, high-strength micronized cellulose fibers with low-tox. lubr.	X	X	X	X	X		X	LO	P		
BCI	BLEN-SQUEEZE	Cellulose LOM w/crosslinkable polymer	X	X	X	X	X		X	LO	V		
BCI	BORESEAL	Mineral fiber blended with pore blocking material	X	X	X	X	X		X	LU	V		
BCI	FRAC-PAK	High-solids, high fluid-loss LCM	X	X	X	X	X		X	LO			
BCI	HYDRASWELL	After spotted, material swells to seal fractures & voids	X	X	X	X	X		X	LO			
BCI	MEGA-SLIDE	Glass beads specifically for use in side & horizontal drilling (14-20 mesh)	X	X	X	X	X		X	LU			
BCI	SPUD-SEAL	Selected size cellulose fibers blended with non-damaging water soluble polymers	X	X	X	X	X						

World Oil's Fluids

Available from:	Product Tradename	Description of material	Recommended for these systems							Product Function			
			Water-based fluids				Oil-based	Synthetic-based	Air, mist, foam, gas	Primary	Secondary	Secondary	
			Non-dispersed	Dispersed	Calcium-treated	Polymer							
BHDF	SOLUFLOW SF, F & M	Sized salt									FR	W	SH
BHDF	SOLU-SQUEEZE	Acid-soluble, high fluid loss squeeze	X	X	X	X	X	X	X	X	LO	SH	FR
BHDF	SULFATROL	Sulfonated asphalt that stabilizes shales and reduces HPHT filtrate	X	X	X	X	X	X	X	X	SH	FR	
BHDF	SULFATROL K	Sulfonated asphalt (with potassium) that stabilizes shales and reduces HPHT filtrate	X	X	X	X	X	X	X	X	SH	FR	
BHDF	SUPER-COL	Extra-high yield bentonite	X			X			X	V	FR	CO	
BHDF	SURF-COTE	Wetting agent						X			TH		
BHDF	SYNTERRA	Synthetic system for land and environmentally sensitive areas					X	X					
BHDF	TEO-LUBE II	Water-soluble LU	X	X	X	X	X	X			LU	RDF	CF
BHDF	TEO-THN CF	Chrome-free modified lignosulfonate	X	X							TH	FR	
BHDF	TERRA-COAT	Deformable sealing polymer for shale stability in the TERRA-MAX system	X	X	X	X	X	X	X		SH	LO	
BHDF	TERRA-RATE	ROP enhancer for the TERRA-MAX system	X	X	X	X	X	X			SU	LU	
BHDF	UNI-CAL	Highly effective thinner for fresh and salt systems	X	X			X				TH	FR	
BHDF	UNI-CAL CF	Lignosulfonate with no chrome added	X	X			X				TH	FR	
BHDF	W.O. 21	HEC viscosifier for completion fluids				X					CF		CF
BHDF	W.O. 21L	HEC viscosifier for workover fluids				X	X				CF		CF
BHDF	W.O. 30	Sized, ground calcium carbonate (fine, med, coarse)	X	X	X	X	X	X	X		W	LO	RDF
BHDF	W.O. 30 SUPERCOARSE	Calcium carbonate	X	X	X	X	X	X	X		LO	W	
BHDF	W.O. BREAK	Polymer break additive											
BHDF	W.O. DEFOAM	Alcohol-base compound for defoaming water-base fluids	X	X	X	X	X	X			D		
BHDF	W.O. 21LE	Liq. HEC - environ.-safe				X	X				CF		CF
BHDF	W-306	Viscosifier for water and brines	X	X	X	X	X				V	FR	CF
BHDF	W-308	FR/Viscosifier for drill-in fluids	X	X	X	X	X				FR	V	
BHDF	W-309	FR/Viscosifier for drill-in fluids	X	X	X	X	X				FR	V	
BHDF	W-309 XT	FR/Viscosifier for drill-in fluids	X	X	X	X	X				FR	V	
BHDF	W-311	Drill-in Fluid Viscosifier	X	X	X	X	X				FR	V	RDF
BHDF	W-312	DIF Fluid Loss Additive	X	X	X	X	X				FR	V	RDF
BHDF	XAN-PLEX	Xanthan gum polymer	X	X	X	X	X				V	RDF	
BHDF	XAN-PLEX D	Xanthan gum polymer with dispersant	X	X	X	X	X				V	RDF	
BHDF	XAN-PLEX L	Liquid xanthan gum polymer for fast mixing	X	X	X	X	X				V	RDF	
BHDF	X-CIDE 102	Glutaraldehyde bactericide	X	X	X	X	X				X	B	
BHDF	X-CIDE 207	Isothiazolone-base biocide-powder	X	X	X	X	X				X	B	
BHDF	X-LINK	Cross-link polymer system	X	X	X	X	X	X	X		LO	MLCM	
BHDF	X-LINK ACR	Accelerator for X-LINK system	X	X	X	X	X	X	X		LO	MLCM	
BHDF	X-LINK RTR	Retarder for X-LINK system	X	X	X	X	X	X	X		LO	MLCM	
BHDF	BD FL 44	Filtrate control for DIF's & fluid control pills	X	X	X	X	X	X			FR	LO	
BHDF	BD VIS 114	Bio-polymer viscosifier	X	X	X	X	X	X			V	FR	
BHDF	BD VIS 129	Viscosifier	X	X	X	X	X	X			V	FR	
BHDF	BD VIS 130	Bio-polymer viscosifier	X	X	X	X	X	X			V	FR	
BHDF	BJ SEAL C	Course calcium carbonate for DIF's & fluid control pills	X	X	X	X	X				FR	LO	W
BHDF	BJ SEAL F	Fine calcium carbonate for DIF's & fluid control pills	X	X	X	X	X				FR	LO	W
BHDF	BJ SEAL M	Medium calcium carbonate for DIF's & fluid control pills	X	X	X	X	X				FR	LO	W
BHDF	BJ TEK PLUG IB	Internal breaker											
BHDF	BJ TEK PLUG XL	Temp. fluid-loss control agent for completion fluids	X	X	X	X	X				LO	V	
BHDF	BJ TEK PLUG XL HD	Temp. fluid-loss control agent for high density completion fluids	X	X	X	X	X				LO	V	
BHDF	BJ TEK PLUG XL HPD	Fluids loss control for high differential pressure conditions	X	X	X	X	X				LO	V	
BHDF	BJ TEK TOTES	Fluid loss delivery system											
BHDF	BJ VIS	Dry HEC viscosifier	X	X	X	X	X				V	FR	
BHDF	BRINEDRILL	Brine-based drill-in systems from 9-18 ppg	X	X	X	X	X				W	SH	FR
BHDF	C-250	CO / filming amine (non-zinc fluids)					X				CO		
BHDF	CLEAN-PLUG	Temp. cross-linked fluid-loss control agent	X	X	X	X	X				LO	V	
BHDF	CLEAN-PLUG KF	Temp. fluid-loss control agent for completion fluids	X	X	X	X	X				LO	V	
BHDF	CK-1	Activator for Quick Vis HT					X				W	SH	
BHDF	DEEPCOM COMPLETION FLUID	Specialty Completion Fluid System	X								W	SH	
BHDF	DEFOAM	D for drill-in systems & completion fluids					X				D		
BHDF	FC 30	Blend of sized and flaked calcium carbonate	X	X	X	X	X				FR	LO	W
BHDF	HTI-2001	High temp. CO for zinc brines					X				CO		
BHDF	HYCAL I	Liq. calcium chloride (to 11.6 ppg)	X								W	SH	
BHDF	HYCAL II	Liq. calcium chloride/bromide (to 15.1 ppg)	X				X				W	SH	
BHDF	HYCAL III	Liq. calcium chl./bromide/zinc bromide (19.2 ppg)					X				W	SH	
BHDF	HYCAL IIISB	Liq. calcium/zinc bromide (to 19.2 ppg)					X				W	SH	
BHDF	HYCAL IISB	Liq. calcium bromide (to 15.3 ppg)	X				X				W	SH	
BHDF	ICE-CHEK	Gas hydrate suppressing packer fluid system	X				X				HS		
BHDF	INSULGEL	Thermal insulating packer fluid (blend of fluids & additives)	X	X	X	X					HS	TE	
BHDF	MUDZYME C-HT	High temp. cellulose polymer specific enzyme breaker for filter cake removal	X	X	X	X	X						
BHDF	MUDZYME S	Starch polymer specific enzyme breaker for filter cake removal	X	X	X	X	X						
BHDF	MUDZYME SX	Polymer specific enzyme blend for filter cake removal	X	X	X	X	X						
BHDF	MUDZYME X	Xanthan polymer specific enzyme breaker for filter cake removal	X	X	X	X	X						
BHDF	NOCAL I	Liq. sodium chloride (to 10.0 ppg)					X				W		
BHDF	NOCAL II	Liq. sodium chloride/bromide (to 12.8 ppg)					X				W		
BHDF	NOCAL IISB	Liq. sodium bromide (to 12.8 ppg)					X				W	SH	

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- E = Emulsifiers
- FR = Filtration reducers
- FL = Flocculants
- FO = Foaming agents
- HPHT = High pressure/high temperature
- HPWB = High performance, water-based
- HS = Hydrate suppressant
- LO = Lost circulation additives
- LU = Lubricants
- MLCM = Massive lost circulation material
- P = Pipe-freeing agents
- RDF = Drill-in fluid

Available from:	Product Tradename	Description of material	Recommended for these systems							Product Function			
			Water-based fluids				Oil-based	Synthetic-based	Air, mist, foam, gas	Primary	Secondary	Secondary	
			Non-dispersed	Dispersed	Calcium-treated	Polymer							
BHDF	NOCAL K	Liq. potassium chloride (to 9.7 ppg)										W	SH
BHDF	NOCAL-FB	Formate/bromide drill-in systems & completion fluid	X			X	X					W	TE
BHDF	NOCAL-HTLC	High temp. / LO packer fluid	X				X				CO	TE	
BHDF	NOMUL C	Non-emulsifier for Ca & Z based DF	X	X	X	X	X	X	X		SU		
BHDF	OBS	Displacement system for oil based drilling fluids	X	X	X	X	X	X	X		WBC	SU	
BHDF	OS-8	Oxygen scavenger (non-sulfur) for most fluids	X	X	X	X	X	X			CO		
BHDF	POTASSIUM FORMATE	Liq. or dry potassium formate (to 13.3 ppg)	X			X					W	TE	SH
BHDF	QUICK VIS HT	Viscosifier for completion fluids	X			X	X				V	FR	
BHDF	QUICK VIS	Liq. HECV for non-formate brines	X			X	X				V	FR	
BHDF	SCB-100	Scale inhibitor					X				CO		
BHDF	SODIUM FORMATE	Liq. or dry sodium formate (to 11.0 ppg)	X			X					W	TE	
BHDF	SS-10	HZS remover / stabilizer					X				W	CO	
BHDF	SUPER INSULGEL	Thermal insulating packer fluid (blend of fluids & additives)	X	X	X	X	X				HS	TE	
BHDF	SYN-WASH	Surfactant blend to remove oil base & synthetic base fluids	X	X	X	X	X	X	X		WBC	SU	
BHDF	TECHNICLEAN 4570	Surfactant blend to remove oil base & synthetic base fluids	X	X	X	X	X	X	X		WBC	SU	
BHDF	TECHNICLEAN +C2603 4575	Surfactant blend to remove oil base & synthetic base fluids	X	X	X	X	X	X	X		WBC	SU	
BHDF	THERMO-PLUG II	Temp. fluid-loss control agent	X	X	X	X	X	X			LO	V	
BHDF	ULTRA FLUSH SPACER SYSTEM	Weighted spacer system for direct displacements	X	X	X	X	X	X			WBC	V	
BHDF	ULTRA VIS	Liquid HECV for non-formate brines	X	X	X	X	X				V	WBC	FR
BHDF	WELL WASH 100	Displacement surfactant to remove water-based fluids	X	X	X	X	X	X			WBC	SU	
BHDF	WELL WASH 200	Casing wash for oil & invert fluids	X	X	X	X	X	X			WBC	SU	
BHDF	WELL WASH 2000	Surfactant blend to remove oil base & synthetic base fluids	X	X	X	X	X	X	X		WBC	SU	
BHDF	WELL WASH 3000	Synthetic & oil-based weighted spacer surfactant-solvent blend	X	X	X	X	X	X	X		WBC	SU	
BHDF	WELL WASH 400	Surfactant blend to remove oil base and synthetic base fluids	X	X	X	X	X	X			WBC	SU	
BHDF	WELL WASH 610G	Surfactant blend to remove oil base & synthetic base fluids	X	X	X	X	X	X	X		WBC	SU	
BHDF	XCD POLYMER	Dry xanthan biopolymer	X	X	X	X	X				WBC	V	FR
BHDF	X-ODE 102	Accelerator for X-LINK	X	X	X	X	X				B		
BHDF	XL GEL	Viscous pill for pipeline displacement	X	X	X	X	X	X			LO	V	
BHDF	XL GEL STABILIZER	Stabilize for viscous pill for pipeline displacement	X	X	X	X	X	X			A	FR	
BHDF	XL Stabilizer	Drill-in / Completion fluid buffer	X	X	X	X	X	X			A	FR	
BHDF	Spacer S	Oil and synthetic base mud displacement spacer	X	X	X	X	X	X	X		WBC		
BHDF	Well Wash 120	Displacement surfactant to remove water base mud	X	X	X	X	X	X			WBC		
BHDF	Well Wash 2020	Displacement surfactant for oil and synthetic based muds	X	X	X	X	X	X	X		WBC		
BHDF	TechClean 4580	Surfactant to remove pipe dope										W	E
BHDF	TekPlug XL	Precrosslinked fluid loss control pill for completion brines										MLCM	
BHDF	TekPlug XL HD	Precrosslinked fluid loss control pill for high density completion brines										MLCM	
BHDF	ClayStay 239	Shale stabilizing completion fluid additive	X	X	X	X	X	X			SH	TE	FR
BHDF	660-L	Polymeric thinner liquid	X	X	X	X	X				TH	SH	FR
BHDF	55-L	Polymeric shale stabilizer, non-ionic	X	X	X	X	X				X	SH	FL
BHDF	AQUAPAC LV	Premium PAC polymer	X	X	X	X	X				FR	SH	LU
BHDF	AQUAPAC REGULAR	Premium PAC polymer	X	X	X	X	X				FR	V	SH
BHDF	BALL-BUSTER-L	Anti bit-balling lubricant	X	X	X	X	X				LU	P	SU
BHDF	BT-250	Guar gum liquid	X	X	X	X	X	X			X	V	
BHDF	BT-550	Xanthan gum liquid	X	X	X	X	X	X			X	V	FL
BHDF	BT-1	Bentonite extender	X	X	X	X	X				V	FL	
BHDF	CI-323	Corrosion inhibitor	X	X	X	X	X				CO		
BHDF	DEFOAMER-A	Liquid defoamer	X	X	X	X	X				D		
BHDF	DESCO	Organic mud thinner	X	X	X	X	X				TH	TE	FR
BHDF	DRILL BEADS (DENSE)	Mechanical lubricant, 3.0 SG	X	X	X	X	X	X	X		LU		
BHDF	DRILL BEADS (LIGHT)	Mechanical lubricant, 1.1 SG	X	X	X	X	X	X	X		LU		
BHDF	F-500	Foamer	X	X	X	X	X	X			X	FO	
BHDF	FLORIGEL HY	Attapulgit, API spec	X	X	X	X	X				SH	FR	LU
BHDF	G-325 GEL	NT Bentonite exceeding API spec's, 180 bbl yield	X	X	X	X	X	X			V	FR	
BHDF	GILSONITE												

World Oil's Fluids

Available from:	Product Tradename	Description of material	Recommended for these systems							Product Function		
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary
Baroid	RUSE-IT	Polymer based LCM	X	X	X	X	X	X	X	X	L	M
Baroid	GELTONE	Organophilic clay	X	X	X	X	X	X	X	X	L	M
Baroid	GELTONE II	Organophilic clay	X	X	X	X	X	X	X	X	L	M
Baroid	GELTONE IV	Organophilic clay	X	X	X	X	X	X	X	X	L	M
Baroid	GELTONE V	Organophilic clay	X	X	X	X	X	X	X	X	L	M
Baroid	GEM CP	Polyglycol	X	X	X	X	X	X	X	X	S	H
Baroid	GEM GP	Polyglycol	X	X	X	X	X	X	X	X	S	H
Baroid	GEM SP	Polyglycol	X	X	X	X	X	X	X	X	S	H
Baroid	HYDRO-PLUG	LCM blend	X	X	X	X	X	X	X	X	L	M
Baroid	HYDRO-PLUG NS	LCM blend	X	X	X	X	X	X	X	X	L	M
Baroid	NHBI-TAR	Inorganic salt blend pill to stabilize tar zones	X	X	X	X	X	X	X	X	L	M
Baroid	INNOCLEAR	Refined n-alkane base fluid	X	X	X	X	X	X	X	X	L	M
Baroid	IMPERMEX	Pre-gelatinized starch	X	X	X	X	X	X	X	X	F	R
Baroid	INVERMUL	Oil mud emulsifier	X	X	X	X	X	X	X	X	S	H
Baroid	INVERMUL NT	Oil mud emulsifier	X	X	X	X	X	X	X	X	S	H
Baroid	LE BAK	Oil mud emulsifier	X	X	X	X	X	X	X	X	S	H
Baroid	LE MIL	Emulsifier for synthetic fluids	X	X	X	X	X	X	X	X	F	R
Baroid	LE SUPERMUL	Emulsifier for synthetic fluids	X	X	X	X	X	X	X	X	F	R
Baroid	LIGNOL PLUS	Lime mud thinner	X	X	X	X	X	X	X	X	L	M
Baroid	LIQUIDROL	ROP enhancer	X	X	X	X	X	X	X	X	L	M
Baroid	LIQUITONE	Oil mud filtration control additive	X	X	X	X	X	X	X	X	L	M
Baroid	LIQUI-VIS EP	Polymer dispersion	X	X	X	X	X	X	X	X	L	M
Baroid	LUBRA-ADS	Co-polymer based lubricant	X	X	X	X	X	X	X	X	L	M
Baroid	MEGAGEN	Membrane generating compound	X	X	X	X	X	X	X	X	L	M
Baroid	N-DRIIL HT PLUS	Modified starch	X	X	X	X	X	X	X	X	F	R
Baroid	N-LOW 325	Time and temperature controlled wall-cake removal product	X	X	X	X	X	X	X	X	W	B
Baroid	N-LOW 408	Time and temperature controlled wall-cake removal product	X	X	X	X	X	X	X	X	W	B
Baroid	N-LOW 412	Time and temperature controlled wall-cake removal product	X	X	X	X	X	X	X	X	W	B
Baroid	N-LOW 457	Time and temperature controlled wall-cake removal product	X	X	X	X	X	X	X	X	W	B
Baroid	NO BLOK C	Non-emulsifier for calcium brines	X	X	X	X	X	X	X	X	S	C
Baroid	NO BLOK Z	Non-emulsifier for zinc-base brines	X	X	X	X	X	X	X	X	S	C
Baroid	NO-SULF	Zinc compound for sulfide scavenging	X	X	X	X	X	X	X	X	S	C
Baroid	N-PLEX	Activator for N-Squeeze	X	X	X	X	X	X	X	X	L	M
Baroid	N-SEAL	Inorganic LCM	X	X	X	X	X	X	X	X	L	M
Baroid	N-SOLATE 275 VIS	Synthetic polymer for thermal insulating packer fluid system	X	X	X	X	X	X	X	X	L	M
Baroid	N-SOLATE 400 VIS	Synthetic polymer for thermal insulating packer fluid system	X	X	X	X	X	X	X	X	L	M
Baroid	N-SOLATE 600 VIS	Synthetic polymer for thermal insulating packer fluid system	X	X	X	X	X	X	X	X	L	M
Baroid	N-SOLATE 275 XLINK	Inorganic cross linker for thermal insulating packer fluid system	X	X	X	X	X	X	X	X	L	M
Baroid	N-SOLATE 400 XLINK1	Inorganic cross linker for thermal insulating packer fluid system	X	X	X	X	X	X	X	X	L	M
Baroid	N-SOLATE 400 XLINK2	Inorganic cross linker for thermal insulating packer fluid system	X	X	X	X	X	X	X	X	L	M
Baroid	N-SOLATE BASE	Base fluid for thermal insulating packer fluid system	X	X	X	X	X	X	X	X	S	B
Baroid	N-SOLATE BASE BR	Base fluid for thermal insulating packer fluid system	X	X	X	X	X	X	X	X	S	B
Baroid	N-SOLATE BASE CS	Base fluid for thermal insulating packer fluid system	X	X	X	X	X	X	X	X	S	B
Baroid	N-WIS	Biopolymer	X	X	X	X	X	X	X	X	V	R
Baroid	N-WIS HI PLUS	Mixed metal hydroxide	X	X	X	X	X	X	X	X	V	R
Baroid	N-WIS I	Liquid xanthan gum	X	X	X	X	X	X	X	X	V	R
Baroid	N-WIS D	Organophilic clay	X	X	X	X	X	X	X	X	V	R
Baroid	N-WIS P PLUS	Blend of polymers	X	X	X	X	X	X	X	X	V	R
Baroid	NXS-LUBE	Synthetic extreme-pressure lubricant	X	X	X	X	X	X	X	X	L	M
Baroid	OMC	Oil mud conditioner	X	X	X	X	X	X	X	X	L	M
Baroid	OMC 2	Oil mud conditioner	X	X	X	X	X	X	X	X	L	M
Baroid	OMC 3	Oil mud conditioner	X	X	X	X	X	X	X	X	L	M
Baroid	OMC 42	Oil mud conditioner	X	X	X	X	X	X	X	X	L	M
Baroid	OXIGON	Oxygen scavenger	X	X	X	X	X	X	X	X	L	M
Baroid	PAC-E & LE	Low viscosity poly-anionic cellulose	X	X	X	X	X	X	X	X	F	R
Baroid	PAC-R & RE	Regular poly-anionic cellulose	X	X	X	X	X	X	X	X	F	R
Baroid	PERFORMAROL	Shale stabilizing polymer	X	X	X	X	X	X	X	X	S	H
Baroid	PETROFREE ESTER	Esther based fluid	X	X	X	X	X	X	X	X	S	B
Baroid	PETROFREE LV	Low viscosity ester base fluid	X	X	X	X	X	X	X	X	S	B
Baroid	PIPSCRUB	Pipe dope cleaning mixture	X	X	X	X	X	X	X	X	S	B
Baroid	PLUG-GIT	Processed cedar fiber	X	X	X	X	X	X	X	X	L	M
Baroid	PLUG-GIT H	Processed wood fiber	X	X	X	X	X	X	X	X	L	M
Baroid	POLVAC PLUS	Low viscosity polyacrylate	X	X	X	X	X	X	X	X	F	R
Baroid	QUIK-FOAM	Foaming agent	X	X	X	X	X	X	X	X	F	R
Baroid	QUIK-FREE	Spotting fluid	X	X	X	X	X	X	X	X	L	M
Baroid	QUIK-FREE NS	North Sea compliant spotting fluid	X	X	X	X	X	X	X	X	L	M
Baroid	QUIK-GEL	High yield bentonite	X	X	X	X	X	X	X	X	V	R
Baroid	QUIK-MUD	Liquid anionic polymer	X	X	X	X	X	X	X	X	F	R
Baroid	QUIK-THIN	Ferrocene lignosulfonate	X	X	X	X	X	X	X	X	T	H
Baroid	RHEOWIT 1	Modified fatty acid	X	X	X	X	X	X	X	X	V	R
Baroid	RHEOBOOST	Liquid mud viscosifier	X	X	X	X	X	X	X	X	V	R
Baroid	RM-63	Polymeric rheology modifier	X	X	X	X	X	X	X	X	S	B
Baroid	SF BASE	Oil-mud base fluid	X	X	X	X	X	X	X	X	L	M
Baroid	SOURSCAV	Hydrogen sulfide scavenger	X	X	X	X	X	X	X	X	C	O
Baroid	SS-105	Copolymer emulsion	X	X	X	X	X	X	X	X	S	H
Baroid	STARBUDE	Biocide not for sale in USA	X	X	X	X	X	X	X	X	B	X
Baroid	STEEAL	Dual-composition carbon material	X	X	X	X	X	X	X	X	L	M
Baroid	STEEAL FINE	Specialty sized dual-composition carbon material	X	X	X	X	X	X	X	X	L	M
Baroid	STEEAL 50, 100, 400, 1000	Specialty sized dual-composition carbon material	X	X	X	X	X	X	X	X	L	M
Baroid	STIX-LESS 20	Glass spheres	X	X	X	X	X	X	X	X	L	M
Baroid	STOP-FRAC D	Pelletized LCM line	X	X	X	X	X	X	X	X	L	M
Baroid	STOP-FRAC S	Pelletized LCM coarse	X	X	X	X	X	X	X	X	L	M
Baroid	SUSPENTONE	Organophilic clay	X	X	X	X	X	X	X	X	L	M
Baroid	SWEEP-WATE	Sized balls	X	X	X	X	X	X	X	X	W	B
Baroid	TAU-MOD	Amorphous/fibrous material	X	X	X	X	X	X	X	X	V	R
Baroid	TEMPERUS	Modified fatty acid	X	X	X	X	X	X	X	X	V	R
Baroid	THERMA-CHK	High temp. dilute reducer	X	X	X	X	X	X	X	X	F	R
Baroid	THERMA-FLOW 500	High temperature degellant	X	X	X	X	X	X	X	X	H	P
Baroid	THERMA-THIN	High temp. defloculant	X	X	X	X	X	X	X	X	T	H
Baroid	THERMA-VIS	Synthetic inorganic viscosifier	X	X	X	X	X	X	X	X	F	R
Baroid	THERMO-BUL	High temperature emulsifier	X	X	X	X	X	X	X	X	F	R
Baroid	THERMO TONE	High temperature filtration reducer	X	X	X	X	X	X	X	X	F	R
Baroid	TORO-TRIM 22	Lubricant	X	X	X	X	X	X	X	X	L	M
Baroid	TORO-TRIM II	Lubricant	X	X	X	X	X	X	X	X	L	M
Baroid	TORO-TRIM III	Lubricant	X	X	X	X	X	X	X	X	L	M
Baroid	TORQUE-LESS DI - 170	Glass spheres	X	X	X	X	X	X	X	X	L	M
Baroid	VIS-PLUS	Organic viscosifier	X	X	X	X	X	X	X	X	L	M
Baroid	WALL-NUT	Ground nut shell-Coarse, Medium, and Fine ROP enhancer	X	X	X	X	X	X	X	X	L	M
Baroid	XLR-RATE	Linear alkane base fluid	X	X	X	X	X	X	X	X	S	B
Baroid	XP-07	Bentonite extender	X	X	X	X	X	X	X	X	V	R
Baroid	XZGEL	Attagel	X	X	X	X	X	X	X	X	L	M
Black Earth	BLACK EARTH HUMALITE	Weathered sub-bituminous coal, similar to Leonardite or weathered lignite	X	X	X	X	X	X	X	X	L	M
Cabot	CESIUM ACETATE	Drill-in & completion base fluid to 18.4 ppg & 455 deg F	X	X	X	X	X	X	X	X	C	F
Cabot	CESIUM FORMATE	Drill-in & completion base fluid to 19.3 ppg & 455 deg F	X	X	X	X	X	X	X	X	C	F
Cabot	FORMATE-VIS-HT	High temperature viscosifier for formate fluids	X	X	X	X	X	X	X	X	V	R

A = Alkalinity (pH control)
B = Bactericides
CA = Calcium removers
CF = Completion fluid
CO = Corrosion inhibitors
D = Defoamers
E = Emulsifiers
FR = Filtration reducers
FL = Flocculants
FO = Foaming agents
HPHT = High pressure/high temperature
HPWB = High performance, water-based
HS = Hydrate suppressant
LO = Lost circulation additives
LU = Lubricants
MFCM = Massive lost circulation material
P = Pipe-freeing agents
RDF = Drill-in fluid

Available from:	Product Tradename	Description of material	Recommended for these systems							Product Function		
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary
Cabot	POTASSIUM FORMATE	Drill-in & completion base fluid to 13.1 ppg & 405 deg F	X	X	X	X	X	X	X	X	C	F
Carless	CLAIRSOL 350M HF	Low toxicity base oil (low vis.)	X	X	X	X	X	X	X	X	L	M
Carless	CLAIRSOL 370	< 1% aromatic-base oil	X	X	X	X	X	X	X	X	L	M
Carless	CLAIRSOL NS	Very low toxicity base oil	X	X	X	X	X	X	X	X	L	M
Carless	CLAIRSOL NS-P	Ultra low aromatic base oil	X	X	X	X	X	X	X	X	L	M
Cebo	CEBO P-H 63	Hematile	X	X	X	X	X	X	X	X	W	B
Cebo	CEBOBAR	Barite	X	X	X	X	X	X	X	X	W	B
Cebo	CEBODOL	Dolomite	X	X	X	X	X	X	X	X	W	B
Cebo	CEBOSALT	European bentonite	X	X	X	X	X	X	X	X	V	R
Cebo	CEBOMICA	Mica	X	X	X	X	X	X	X	X	L	M
Cebo	CEBONUTSHELLS	Nutshells	X	X	X	X	X	X	X	X	L	M
Cebo	CEBOSALT	Salt	X	X	X	X	X	X	X	X	S	H
Cebo	CEBOSWDC	Salwater drilling clay	X	X	X	X	X	X	X	X	L	M
Cebo	CEBOWOGEL	Wyoming bentonite	X	X	X	X	X	X	X	X	V	R
Cesco	CESCO CG	Pre-treated gilsonite	X	X	X	X	X	X	X	X	S	H
Cesco	CESCO COUPLER	Surfactant wetting agent for gilsonite and asphalts	X	X	X	X	X	X	X	X	S	H
Cesco	CESCO GILSONITE	Natural safe SH	X	X	X	X	X	X	X	X	S	H
Chandler	ALPHA 1000	Oil-base mud rheology modifier (liquid)	X	X	X	X	X	X	X	X	T	H
Chandler	ALPHA 1001	Oil-base mud E (liquid)	X	X	X	X	X	X	X	X	E	E
Chandler	ALPHA 1002	Oil-base mud E (liquid)	X	X	X	X	X	X	X	X	E	E
Chandler	ALPHA 1003	Oil-base mud E (liquid)	X	X	X	X	X	X	X	X	E	E
Chandler	ALPHA 1003E	Oil-base mud E (liquid)	X	X	X	X	X	X	X	X	E	E
Chandler	ALPHA 1004E	Oil-base mud E/LU (liquid)	X	X	X	X	X	X	X	X	E	L
Chandler	ALPHA 1006	Oil-base mud E (liquid)	X	X	X	X	X	X	X	X	E	E
Chandler	ALPHA 1007	Oil-base mud secondary E (liquid)	X	X	X	X	X	X	X	X	E	E
Chandler	ALPHA 1010E	Oil-base mud conditioner (liquid)	X	X	X	X	X					

World Oil's Fluids

Available from:	Product Tradename	Description of material	Recommended for these systems						Product Function						
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary	Secondary	Secondary	
DX Oilfield	CAN-THIN	Chrom-free TH	X	X	X	X	X		TH	FR	TE				
DX Oilfield	CFL-II	Chrom-free lignosulfonate	X	X	X	X	X		TH	TE	FR				
DX Oilfield	CLS	Chrom lignosulfonate	X	X	X	X	X		TH	TE	FR				
DX Oilfield	DX-DEFOAM	Proprietary defoamer	X	X	X	X	X				D				
DX Oilfield	DX-EXTEND	Bentonite extender, selective FL	X	X	X	X				V	FL				
DX Oilfield	DX-HPL	High pressure, high temp. LU	X	X	X	X	X	X	LU						
DX Oilfield	DX-PAL 30	Liq. emulsion PHHA	X	X	X	X	X		X	SH	V	FL			
DX Oilfield	DX-PAM	Non-ionic polyacrylamide emulsion	X	X	X	X	X		X	SH	FL				
DX Oilfield	DX-PHPA	High M.W. dry PHHA	X	X	X	X	X		X	SH	V	FL			
DX Oilfield	DX-SAPP	Sodium acid pyrophosphate	X	X	X	X	X			TH					
DX Oilfield	DX-THIN	Liquid polymeric TH	X	X	X	X				TH					
DX Oilfield	DX-ZINC CARB	Zinc carbonate	X	X	X	X	X			SU					
DX Oilfield	PERMAPLEX	High temp. synthetic fluid loss resin	X	X	X	X	X			FR	TE	TH			
DX Oilfield	SHALE-BLOCK	Sulfonated asphalt shale stabilizer	X	X	X	X	X	X		SH	FR	LU			
DX Oilfield	SHALE-TONE	Modified asphaltic shale stabilizer	X	X	X	X	X	X		SH	FR	LU			
DX Oilfield	SPAR	Sodium polyacrylate	X	X	X	X	X			FR	FL	TH			
Deep South	BIO 3	Mixture of biocide, oxygen scavenger and CO	X	X	X	X	X			CO	B				
Deep South	BIO SOLV	Non-terpene displacement & pipe pickling solvent						X		SU					
Deep South	BLUE MAX	Surfaceant surface cleaner	X	X	X	X	X	X		SU					
Deep South	BP 101	Wellbore displacement solvent	X	X	X	X	X			SU					
Deep South	BP 24	Silicone defoamer	X	X	X					D					
Deep South	BP 4620	Mixture of non-ionic surfactants & solvents	X	X	X	X	X	X		SU					
Deep South	BP 9125	Mixture of non-ionic surfactants	X	X	X	X	X	X		SU					
Deep South	BP 9140	Mixture of non-ionic surfactants	X	X	X	X	X	X		SU					
Deep South	BP 9755	Mixture of non-ionic surfactants	X	X	X	X	X	X		SU					
Deep South	BP 9846	Mixture of solvents	X	X	X	X	X	X		SU					
Deep South	BP PREFLUSH	Sulfonated copolymer	X	X	X	X				TH					
Deep South	BP SPACER MIX	A mixture of dispersant & polymer	X	X	X	X	X			TH					
Deep South	CEMENT RETARDER	Sodium lignosulfonate	X	X						TH					
Deep South	CFL 500 L	Cement fluid loss agent	X	X						FR					
Deep South	DSC 300	Heterocyclic filming agent	X	X	X					CO					
Deep South	DSC BF30	Thiocarbonate bactericide	X	X						B					
Deep South	DSC CIDE	Organic sulfur antimicrobial agent	X	X	X					B					
Deep South	DSC H.T. 450	Corrosion inhibitor up to 450°F	X	X	X	X				CO					
Deep South	DSC INSOL	Asphaltic inhibitor & dispersant	X	X	X	X				SU					
Deep South	DSC OS-50	Sulfite based oxygen scavenger	X	X	X	X				CO					
Deep South	DSC VIS	Non-ionic pure hydroxyethyl cellulose	X	X	X	X				V	FR				
Deep South	GOLD CLEAN	Solvent/surfactant surface cleaner	X	X	X	X	X			SU					
Deep South	GOLD FLUSH	Pipe pickling solvent & cleaner for grases, oils	X	X	X	X	X	X		SU					
Deep South	GOLD FLUSH CM	Solvent cake remover, cleaner for Cement Spacer	X	X	X	X	X	X		SU					
Deep South	GOLD FLUSH II	Wellbore displacement solvent	X	X	X	X	X	X		SU					
Deep South	GOLD FLUSH II UK	OCNS E-rated solvent	X	X	X	X	X	X		SU					
Deep South	GOLD FLUSH R	Solvent for riser cleaning	X	X	X	X	X			WBC					
Deep South	GOLD FLUSH SA	Solvent for open hole displacements & perf. cleanup	X	X	X	X	X	X		SU					
Deep South	GOLD FLUSH SB	Wellbore displacement additive	X	X	X	X	X			SU					
Deep South	GOLD SURF	Water wetting surfactant	X	X	X	X	X	X		SU					
Deep South	GOLD SURF 11-W	OCNS E-rated surfactant	X	X	X	X	X	X		SU					
Deep South	GOLD SURF C	Non-ionic surfactant for Cement Spacer	X	X	X	X	X	X		SU					
Deep South	GOLD SURF II	Wellbore displacement surfactant, cleaner	X	X	X	X	X	X		SU					
Deep South	GOLD SURF S	Non-ionic surfactant for open hole displacements	X	X	X	X	X	X		SU					
Deep South	GOLD VIS	Calling agent for all Gold Flush solvents	X	X	X	X				V	SU				
Deep South	HEC LINEAR GEL E	OCNS E-rated liquid HEC	X	X	X	X	X			V	FR				
Deep South	HYDRO MAG	pH buffer for fresh & brine waters	X	X	X	X				A					
Deep South	KO 1200	Water soluble zinc chelate for H2S	X	X	X	X	X			SU					
Deep South	LIQUID GUAR E	Liquid V using unmodified guar	X	X	X	X	X			V					
Deep South	LIQUID XA-E POLYMER	Liquid polymer	X	X	X	X				V					
Deep South	PINK POWER	Surfactant surface cleaner	X	X	X	X	X	X		SU					
Deep South	SI 120	Prevents deposition of alkaline earth metal scales					X			SU					
Deep South	SPACER VIS	Biozan polymer	X	X	X	X				V					
Deep South	SUPER HOT STUFF	Surfactant surface cleaner	X	X	X	X				SU					
Deep South	WD-24	Silicone defoamer	X	X	X					D					
Deep South	WELL WASH I	Surfactant & polymer mixture for WBM displacement	X	X	X	X	X	X		SU					
Deep South	WELL WASH II	Surfactant & solvent for wellbore displacement	X	X	X	X	X	X		SU					
Densimix	DENSFIL	Hematite, Fe2O3	X	X	X	X	X	X		W					
Dow	CELLULOSE HEC-10	Hydroxyethyl cellulose viscosifier	X	X	X										
Dow	CELLULOSE HEC-10HV	Hydroxyethyl cellulose viscosifier	X	X	X										
Dow	CELLULOSE HEC-15	Hydroxyethyl cellulose fluid loss additive for cementing	X	X	X										
Dow	CELLULOSE HEC-18	Hydroxyethyl cellulose fluid loss additive for cementing	X	X	X										
Dow	CELLULOSE HEC-25	Hydroxyethyl cellulose viscosifier	X	X	X										
Dow	CELLULOSE HEC-25HV	Hydroxyethyl cellulose viscosifier	X	X	X										
Dow	CELLULOSE HEC-60	Hydroxyethyl cellulose fluid loss additive for cementing	X	X	X										
Dow	DOWFAX	Anionic surfactants	X	X	X										
Dow	TERGITOL	Non-ionic surfactants	X	X	X										
Dow	TRITON	Anionic surfactants	X	X	X										
Dow	TRITON	Non-ionic surfactants	X	X	X										
Drill Spec.	CLARIZAN	Clarified xanthan gum biopolymer	X	X	X	X	X	X		X	V		FR	LU	
Drill Spec.	DEFOAM DESCO	Liq. defoamer	X	X	X	X	X			D	FR	LU			
Drill Spec.	DESCO	Organic mud thinner	X	X	X	X	X			TH	TE	FR			
Drill Spec.	DESCO CF	Organic mud thinner	X	X	X	X	X			TH	TE	FR			

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- B = Bactericides
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- CF = Completion fluid
- CO = Corrosion inhibitors
- D = Defoamers
- E = Emulsifiers
- FR = Filtration reducers
- FL = Flocculants
- FO = Foaming agents
- HPHT = High pressure/high temperature
- HPWB = High performance, water-based

- HS = Hydrate suppressant
- LO = Lost circulation additives
- LU = Lubricants
- MLCM = Massive lost circulation material
- P = Pipe-freeing agents
- RDF = Drill-in fluid
- SB = Synthetic-based
- SH = Shale-control agents
- SU = Surface-active agents
- TE = Temperature stability agents
- TH = Thinners, dispersants
- V = Viscosifiers
- W = Weighting materials
- WBC = Wellbore cleanout
- WBM = Water based mud

Available from:	Product Tradename	Description of material	Recommended for these systems						Product Function					
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary	Secondary	Secondary
Drill Spec.	DESCO CF	Organic mud thinner	X	X	X	X	X				TH	TE	FR	
Drill Spec.	DEFLOCCULANT		X	X	X	X	X							
Drill Spec.	DIACEL D	Diatomaceous earth filter material	X	X	X	X	X	X					MLCM	
Drill Spec.	DIASCAL M	Blended high-solids squeeze materials	X	X	X	X	X	X					MLCM	
Drill Spec.	DRILL PAC HV	Purified polyanionic cellulose	X	X	X	X	X	X			X	FR	V	SH
Drill Spec.	DRILL PAC LV	Purified polyanionic cellulose	X	X	X	X	X	X			X	FR	FR	SH
Drill Spec.	DRILL-THIN	Chrom-free tannin mud conditioner	X	X	X	X	X				TH	TE	FR	
Drill Spec.	DRILLZAN D BIOPOLYMER	Xanthan gum biopolymer	X	X	X	X	X				X	V		
Drill Spec.	DRISCAL D	Synthetic polymer	X	X	X	X	X				X	HHP	FR	V
Drill Spec.	DRISCOSE	Pure grade CMC	X	X	X	X					X	FR	V	SH
Drill Spec.	DRISPAC LIQUID	Liq. polyanionic cellulose	X	X	X	X	X				X	FR	V	SH
Drill Spec.	DRISPAC LIQUID GREENBASE	Liq. polyanionic cellulose	X	X	X	X	X				X	FR	V	SH
Drill Spec.	DRISPAC PLUS	Polyanionic cellulose polymer	X	X	X	X	X				X	FL	V	SH
Drill Spec.	DRISPAC PLUS SL	Polyanionic cellulose polymer	X	X	X	X	X				X	FR	V	SH
Drill Spec.	DRISPAC REG	Polyanionic cellulose	X	X	X	X	X				X	FR	V	SH
Drill Spec.	DRISPAC SUPERLO	Polyanionic cellulose	X	X	X	X	X				X	FR	SH	LU
Drill Spec.	DRISTEMP POLYMER	Synthetic polymer LV	X	X	X	X	X				X	HHP	FR	V
Drill Spec.	DSO PAC POLYMER	Economical polyanionic cellulose	X	X	X	X	X				X	FR	SH	
Drill Spec.	DYNARED FIBER FINE	LO fiber	X	X	X	X	X	X			X	FR	SH	
Drill Spec.	DYNARED FIBER COARSE	LO fiber	X	X	X	X	X	X			X	FR	SH	
Drill Spec.	DYNARED FIBER MEDIUM	LO fiber	X	X	X	X	X	X			X	FR	SH	
Drill Spec.	FLOWZAN	Xanthan gum biopolymer	X	X	X	X	X				X	V		
Drill Spec.	FLOWZAN LIQUID	Liq. xanthan gum biopolymer	X	X	X	X	X				X	V		
Drill Spec.	GREENBASE	Liq. xanthan gum biopolymer	X	X	X	X	X				X	V		
Drill Spec.	GREENBASE HEC LIQUID	Pure HEC in non-setting liq. suspension	X	X	X	X	X				X	V	FR	
Drill Spec.	HE-100 POLYMER	Synthetic water soluble copolymer	X	X	X	X	X				X	V	FR	TE
Drill Spec.	HE-150 POLYMER	Synthetic water soluble copolymer	X	X	X	X	X				X	LU	V	TE
Drill Spec.	LIQUID HE-150 POLYMER	Synthetic water soluble copolymer	X	X	X	X	X				X	LU	V	TE
Drill Spec.	GREENBASE HE 150 POLYMER	Synthetic water soluble copolymer	X	X	X	X	X				X	LU	V	TE
Drill Spec.	HE-300 POLYMER	Synthetic water soluble copolymer	X	X	X	X	X				X	V	FR	TE
Drill Spec.	HE-400 POLYMER	Synthetic water soluble copolymer	X	X	X	X	X				X	V	FR	TE
Drill Spec.	HEC LIQUID	Pure HEC in non-setting liq. suspension	X	X	X	X	X				X	V	FR	TE

World Oil's Fluids

Available from:	Product Tradename	Description of material	Recommended for these systems							Product Function		
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary
Gumpro	GEL CI	Corrosion inhibitor	X	X	X	X	X	X	X			CO
Gumpro	GEL CIDE	Biocide	X	X	X	X	X	X	X			B
Gumpro	GEL CLAY	Organo clay	X	X	X	X	X	X	X			V
Gumpro	GEL CMC HV	Carboxy methyl cellulose, high vis	X	X	X	X	X	X	X			V
Gumpro	GEL CMC LV	Carboxy methyl cellulose, low vis	X	X	X	X	X	X	X			FR
Gumpro	GEL CR	High temp. thinner and dispersant	X	X	X	X	X	X	X			TH
Gumpro	GEL DE FOAM A	Surface-acting liq. defoamer	X	X	X	X	X	X	X			D
Gumpro	GEL DE FOAM S	Env. friendly surface-acting liq. defoamer	X	X	X	X	X	X	X			D
Gumpro	GEL DET	Drilling detergent	X	X	X	X	X	X	X			SU
Gumpro	GEL EPTORQUE REDUCER	Env. friendly E.P. lubricant	X	X	X	X	X	X	X			LU
Gumpro	GEL EX	Bentonite extender	X	X	X	X	X	X	X			V
Gumpro	GEL FREE NW	Special blend of surfactant to free stuck pipe	X	X	X	X	X	X	X			P
Gumpro	GEL FREE W	Special blend of surfactant to free stuck pipe	X	X	X	X	X	X	X			P
Gumpro	GEL K LIG	Potassium lignite	X	X	X	X	X	X	X			SH
Gumpro	GEL LIG	Processed lignite	X	X	X	X	X	X	X			TH
Gumpro	GEL LUBE	Env. friendly LU	X	X	X	X	X	X	X			LU
Gumpro	GEL MCA	Muscovite mica flakes	X	X	X	X	X	X	X			LO
Gumpro	GEL MOD	Rheology modifier for OBM	X	X	X	X	X	X	X			V
Gumpro	GEL MUL	Primary E for oil-base mud	X	X	X	X	X	X	X			E
Gumpro	GEL NUTPLUG	Walnut shells	X	X	X	X	X	X	X			LU
Gumpro	GEL PAC LV	Poly anionic cellulose low vis. tech. grade	X	X	X	X	X	X	X			FR
Gumpro	GEL PAC RG	Poly anionic cellulose regular tech. grade	X	X	X	X	X	X	X			V
Gumpro	GEL RX	Resinated lignite	X	X	X	X	X	X	X			FR
Gumpro	GEL SEAL M	High water-loss plug	X	X	X	X	X	X	X			LO
Gumpro	GEL SIL EPL	Env. friendly LU for silicate mud system	X	X	X	X	X	X	X			LU
Gumpro	GEL STARCH	Preserved pre-gel drilling starch	X	X	X	X	X	X	X			FR
Gumpro	GEL WET	Secondary E wetting agent	X	X	X	X	X	X	X			E
Gumpro	GEL WHITE	Size ground marble for drill-in fluid	X	X	X	X	X	X	X			LO
Gumpro	GEL-ASPHATEX	Asphaltic shale stabilizer	X	X	X	X	X	X	X			SH
Gumpro	GEL-K-SEAL	Blended LCM of granules, fibers and flakes	X	X	X	X	X	X	X			LO
Gumpro	GEL-LC-SEAL	Cellulose fibers for seepage loss control	X	X	X	X	X	X	X			LO
Gumpro	GEL LC SEAL T	Treated cellulose fibers for seepage loss control for OBM	X	X	X	X	X	X	X			LO
Gumpro	GEL-LIGNITE	Lignite powder	X	X	X	X	X	X	X			FR
Gumpro	GELTEX CP	Biodegradable polysaccharide	X	X	X	X	X	X	X			V
Gumpro	GELTROL	Gilsonite	X	X	X	X	X	X	X			FR
Gumpro	GELTROL AL	Aminated lignite	X	X	X	X	X	X	X			FR
Gumpro	SUREPL	Blend of non-damaging LCM and polymer plug	X	X	X	X	X	X	X			LO
Gumpro	THERMOGEL	Polymer plug	X	X	X	X	X	X	X			LO
Hychem	HYPERDRILL AD 200	Crosslinked polyacrylamide, liquid, super absorbant	X	X	X	X	X	X	X			LO
Hychem	HYPERDRILL AD 859	50% active, dispersion, polyacrylamide shale inhibitor	X	X	X	X	X	X	X			SH
Hychem	HYPERDRILL AE 843	Emulsion polyacrylamide total flocculant	X	X	X	X	X	X	X			FL
Hychem	HYPERDRILL AE 853	Emulsion polyacrylamide shale inhibitor, V	X	X	X	X	X	X	X			V
Hychem	HYPERDRILL AE 856	Low M.W. PHPA shale inhibitor	X	X	X	X	X	X	X			SH
Hychem	HYPERDRILL AF 204	Dry polyacrylamide total flocculant	X	X	X	X	X	X	X			FL
Hychem	HYPERDRILL AF 204 RD	Dispersible dry total flocculant	X	X	X	X	X	X	X			FL
Hychem	HYPERDRILL AF 207	Dry polyacrylamide shale inhibitor, V	X	X	X	X	X	X	X			SH
Hychem	HYPERDRILL AF 207RD	Dispersible PHPA shale inhibitor, V	X	X	X	X	X	X	X			SH
Hychem	HYPERDRILL AF 247	Low M.W. PHPA shale inhibitor	X	X	X	X	X	X	X			SH
Hychem	HYPERDRILL AF 247 RD	DMW dispersible PHPA shale inhibitor	X	X	X	X	X	X	X			SH
Hychem	HYPERDRILL AF 249	HTHP fluid loss additive in powder form	X	X	X	X	X	X	X			FR
Hychem	HYPERDRILL AF 250	Sodium polyacrylate	X	X	X	X	X	X	X			FR
Hychem	HYPERDRILL AF 251	Dry polyacrylate bentonite extender	X	X	X	X	X	X	X			V
Hychem	HYPERDRILL AF 257	Very low M.W. PHPA shale inhibitor	X	X	X	X	X	X	X			SH
Hychem	HYPERDRILL AF 260	HTHP fluid loss additive in bead form	X	X	X	X	X	X	X			FR
Hychem	HYPERDRILL AP 200 A	Crosslinked polyacrylamide, super absorbant	X	X	X	X	X	X	X			LO
Hychem	HYPERDRILL CE 809	Emulsion cationic flocculant	X	X	X	X	X	X	X			FL
Hychem	HYPERDRILL CP 905	Dry cationic flocculant	X	X	X	X	X	X	X			FL
Hychem	HYPERDRILL DF 2010	Liquid polymeric thinner	X	X	X	X	X	X	X			TH
Hychem	HYPERDRILL DF 2020	High temp., contaminant tolerant, liquid thinner	X	X	X	X	X	X	X			TH
Hychem	HYPERDRILL NE 823	Non-ionic, emulsion, polyacrylamide selective flocculant	X	X	X	X	X	X	X			FL
Hychem	HYPERDRILL NF 201	Dry polyacrylamide selective flocculant	X	X	X	X	X	X	X			FL
Ibex	XTRA-CONTROL HM	High-melt gilsonite	X	X	X	X	X	X	X			FR
Ibex	XTRA-DEFLOC	Drilling fluid deflocculant	X	X	X	X	X	X	X			TH
Ibex	XTRA-DEFLOAM	All-purpose defoamer	X	X	X	X	X	X	X			D
Ibex	XTRA-DEFLOAM PLUS	Premium multi-system defoamer	X	X	X	X	X	X	X			D
Ibex	XTRA-DME	Drilling fluid emulsifier	X	X	X	X	X	X	X			E
Ibex	XTRA-EP	Oil mud emulsifier	X	X	X	X	X	X	X			E
Ibex	XTRA-ESW	Secondary emulsifier/wetting agent	X	X	X	X	X	X	X			E
Ibex	XTRA-FOAM PLUS	All-purpose foaming agent	X	X	X	X	X	X	X			FO
Ibex	XTRA-LINER G	Surfactant-treated gilsonite	X	X	X	X	X	X	X			SH
Ibex	XTRA-LINER L	Polyol-blend for shale inhibition	X	X	X	X	X	X	X			FR
Ibex	XTRA-LINER RG	Untreated gilsonite	X	X	X	X	X	X	X			SH
Ibex	XTRA-LUBE	Environmentally-safe lubricant	X	X	X	X	X	X	X			LU
Ibex	XTRA-LUBE XP	Extreme-pressure lubricant	X	X	X	X	X	X	X			SH
Ibex	XTRA-LOIL SPOT	Oil-base spotting fluid	X	X	X	X	X	X	X			P
Ibex	XTRA-SPOT	Glycol-base spotting fluid additive	X	X	X	X	X	X	X			P
Ibex	XTRA-SURF	Drilling fluid surfactant	X	X	X	X	X	X	X			SU
Ibex	XTRA-SYNSOLV 100	Asphalt solvent	X	X	X	X	X	X	X			SU
Ibex	XTRA-THIN	Polymeric thinner	X	X	X	X	X	X	X			TH
Ibex	XTRA-WET	Wetting agent for gilsonite and asphalt	X	X	X	X	X	X	X			SU
Ibex	XTRA-WET CONCENTRATE	Wetting agent for gilsonite & asphalt	X	X	X	X	X	X	X			SU
Impact	DWC2000	Viscosifier	X	X	X	X	X	X	X			V

A = Alkalinity (pH control)
B = Bactericides
CA = Calcium removers
CF = Completion fluid
CO = Corrosion inhibitors
D = Defoamers
E = Emulsifiers
FR = Filtration reducers
FL = Flocculants
FO = Foaming agents
HPHT = High pressure/high temperature
HPWB = High performance, water-based
HS = Hydrate suppressant
LO = Lost circulation additives
LU = Lubricants
MLCM = Massive lost circulation material
P = Pipe-freeing agents
RDF = Drill-in fluid

Available from:	Product Tradename	Description of material	Recommended for these systems							Product Function		
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary
Impact	FLC2000	Filtration / invasion control	X	X	X	X	X	X	X			FR
Impact	KFA2000	Lubricant	X	X	X	X	X	X	X			LU
Impact	LCF2000	Lost circulation treatment	X	X	X	X	X	X	X			MLCM
Integrity	BRINESHIELD	Brine additive to protect human tissue	X	X	X	X	X	X	X			FR
Integrity	EZE-VIS-LT	Liq. Viscosifier	X	X	X	X	X	X	X			V
Integrity	EZ-VIS-OLS	Envr. liq. V	X	X	X	X	X	X	X			V
Integrity	MAGNA-LUBE	Vertical reach LU/enhancer	X	X	X	X	X	X	X			LU
Integrity	MINERAL-LUBE	RDP enhancer	X	X	X	X	X	X	X			LU
Integrity	PETRO-SORB	Oil absorbent	X	X	X	X	X	X	X			LU
Integrity	RUST-X	Rust converter & primer	X	X	X	X	X	X	X			CO
Integrity	SAFE-SPOT	Spotting fluid	X	X	X	X	X	X	X			P
Integrity	SAFEVERT FL-G	Oil mud gilsonite	X	X	X	X	X	X	X			FR
Integrity	SAFEVERT I	Primary E	X	X	X	X	X	X	X			E
Integrity	SAFEVERT II	Secondary E	X	X	X	X	X	X	X			E
Integrity	SAFEVERT SUPERWET	Oil mud wetting agent	X	X	X	X	X	X	X			TH
Integrity	SAFEVERT TWA	Oil mud TH	X	X	X	X	X	X	X			TH
Integrity	SAFEVERT VISCOSIFIER	Organoclay	X	X	X	X	X	X	X			V
Integrity	SULFA-TONE	Sulfonated asphalt	X	X	X	X	X	X	X			SH
Integrity	SYNVERT FL-G	Synthetic FR	X	X	X	X	X	X	X			FR
Integrity	SYNVERT I	Synthetic primary E	X	X	X	X	X	X	X			E
Integrity	SYNVERT II	Synthetic secondary E	X	X	X	X	X	X	X			E
Integrity	SYNVERT TWA	Synthetic TH	X	X	X	X	X	X	X			TH
Integrity	SYNVERT VISCOSIFIER	Synthetic V	X	X	X	X	X	X	X			V
Integrity	THERMABREAK	Internal breakers	X	X	X	X	X	X	X			V
Integrity	THERMACOAT	Metal treatment for bits, stabilizers	X	X	X	X	X	X	X			LU
Integrity	THERMASOLVE	Promotes destruction of filter cake, emulsions & water wets solids	X	X	X	X	X	X	X			LU
Integrity	ULTRA LUBE	RDP enhancer	X	X	X	X	X	X	X			SU
Integrity	ULTRA LUBE II	Offshore extended-reach LU	X	X	X	X	X	X	X			LU
Integrity	X-VIS-LT	Xanthan gum suspension, passes LC-50 & static sheen tests	X	X	X	X	X	X	X			V
Integrity	X-VIS-OLS	Xanthan gum suspension, passes LC-50 & static sheen oil & grease tests	X	X	X	X	X	X	X			V
Kelco	BEN-EX	Bentonite extender & selective flocculant	X	X	X	X	X	X	X			X
Kelco	BIOZAN	Welan gum	X	X	X	X	X	X	X			V
Kelco	CELPOL ESR	Polyanionic cellulose, extreme low vis. Gr.	X	X	X	X	X	X	X			FR
Kelco	CELPOL RL	Polyanionic cellulose, reg. vis. Gr.	X	X	X	X	X	X	X			FR
Kelco	CELPOL RX	Premium gr., polyanionic cellulose, high vis.	X	X	X	X	X	X	X			V
Kelco	CELPOL SL	Purified PAC low vis.	X	X	X	X	X	X	X			FR
Kelco	CELPOL SLX	Premium purified PAC, low vis.	X	X	X	X	X	X	X			FR
Kelco	FINNIFIX BOL	Middle vis. tech. CMC	X	X	X	X	X	X	X			FR
Kelco	FINNIFIX H	Purified, CMC high vis. Gr.	X	X	X	X	X	X	X			V
Kelco	FINNIFIX HC	High vis. tech CMC	X	X	X	X	X	X	X			FR
Kelco	FINNIFIX L	Purified, CMC low vis. Gr.	X	X	X	X	X	X	X			FR
Kelco	FINNIFIX LC	Low vis. tech. CMC	X	X	X	X	X	X	X			FR
Kelco	FINNIFIX RC	Middle vis. tech. CMC	X	X	X	X	X	X	X			FR
Kelco	GEOVIS XT	Diatan gum	X	X	X	X	X	X	X			V
Kelco	KELZAN L	Drilling grade xanthan gum	X	X	X	X	X	X	X			V
Kelco	KELZAN XC POLYMER	Xanthan gum	X	X	X	X	X	X	X			V
Kelco	KELZAN XCD POLYMER	Dispersible xanthan gum	X	X	X	X	X	X	X			V
Kelco	KWKSEAL	LO material	X	X	X	X	X	X	X			LO
Kelco	MF-1	Non-ionic polyacrylamide	X	X	X	X	X	X	X			FL
Kelco	MF-55	Non-ionic poly										

World Oil's Fluids

Available from:	Product Tradename	Description of material	Recommended for these systems							Product Function				
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary	Secondary	Secondary
Kem-Tron	KEM-WIS	Anionic polyacrylamide, emulsified, winterized	X	X	X	X	X	X				V	FR	FL
Kem-Tron	KEM-PA S	Synthetic anionic polymer, powder	X	X	X	X	X	X				SH	FR	V
Kem-Tron	KEM-PAK ULV	Carboxymethylated polymer, powder	X	X	X	X	X	X				FR	LU	
Kem-Tron	KEM-THIN 5A	Anionic synthetic copolymer-dry	X	X	X	X	X	X				TH		
Kem-Tron	KEM-THIN SUPER	Anionic synthetic copolymer-liq.	X	X	X	X	X	X				TH		
Kem-Tron	KEM-X	Synthetic polymer	X	X	X	X	X	X				V	FR	
Kem-Tron	POLY-KEM D	Partially-Hydrolyzed Polyacrylamide, powder	X	X	X	X	X	X				SH	FR	FL
Kem-Tron	POLY-KEM L	Partially-Hydrolyzed Polyacrylamide, emulsion	X	X	X	X	X	X				SH	FR	FL
Kem-Tron	SMECTEX	Selective-FL & bentonite extender, powder	X	X	X	X	X	X				V	FL	
Kem-Tron	Z-TROL	Synthetic, high temp., polymer, powder	X	X	X	X	X	X				FR	TE	SH
Kem-Tron	KAT-FLOC 1600XX	Dewatering polymer, emulsion	X	X	X	X	X	X				FR	LU	SH
LCM	DF 63051	Low toxicity mineral oil blend for ROP enhancement	X	X	X	X	X	X				LU	SH	
LCM	FLAKE CARB	Calcium Carbonate flakes- 100, 200, 325	X	X	X	X	X	X				LO	W	FR
LCM	GX SEAL	Graphite plugging agent	X	X	X	X	X	X				LO	FR	LU
LCM	LC COARSE SEAL	Fibrous, granular & flake material for massive lost circ.	X	X	X	X	X	X				LO		
LCM	LC FIBER SEAL	Cellulose fibers: fine, medium and coarse	X	X	X	X	X	X				LO		
LCM	LC WALL PLUG	Ground walnut hulls- fine, med. coarse	X	X	X	X	X	X				LO		
LCM	QUAD SEAL	Blended fine seepage loss additive	X	X	X	X	X	X				LO		
LCM	TERRA TROL	Untreated Gilsinite	X	X	X	X	X	X				SH	FR	LU
LCM	TRIPLE SEAL	Blended acid-soluble mineral fiber and bridging agents	X	X	X	X	X	X				LO	V	FR
LCM	RIG CLEAN	Rig wash										SU		
LCS	MAGMA FIBER FINE	Acid-soluble mineral fiber LCM	X	X	X	X	X	X				LO	V	FR
LCS	MAGMA FIBER REGULAR	Acid-soluble mineral fiber LCM	X	X	X	X	X	X				LO	V	FR
L-USA	ALBISOL OE	Solvent based pipe cleaner	X	X	X	X	X	X				WBC	CF	
L-USA	BIOLAM K	Rheology modifier/viscosifier	X	X	X	X	X	X				V	FR	CF
L-USA	CLEAN RIG	Effective surfactants & wetting agents blend	X	X	X	X	X	X				WBC	CF	
L-USA	DEFOMEX SB	All purpose effective D	X	X	X	X	X	X				D		
L-USA	DEFOMEX TA	Ester based concentrated D	X	X	X	X	X	X				D	CF	LU
L-USA	DEFOMEX EG110	Aluminum Stearate based D	X	X	X	X	X	X				D	LU	
L-USA	DRILLAL DD	Drilling detergent	X	X	X	X	X	X				SU		
L-USA	EMULAM AK	Primary Emulsifier							X	X		E		
L-USA	EMULAM ASB	Super wetting agent							X	X		TH		
L-USA	EMULAM FLC	Liq. OBM fluid loss reducer							X	X		FR		E
L-USA	EMULAM IT209	Imidazoline based emulsifier							X	X		E	TH	
L-USA	EMULAM PC	Primary E for diesel based muds							X	X		FR	SU	
L-USA	EMULAM PM	Primary E for mineral oil based muds							X	X		E	FR	SU
L-USA	EMULAM PS	Primary E for synthetic systems							X	X		E	FR	SU
L-USA	EMULAM SC	Secondary E for diesel based muds							X	X		E	FR	
L-USA	EMULAM SM	Secondary E for mineral oil based muds							X	X		E	FR	
L-USA	EMULAM SS	Secondary E for synthetic systems							X	X		E	FR	
L-USA	EMULAM RM3	Rheology modifier/suspending agent							X	X		V	FR	E
L-USA	EMULAM TH3	TH/Superwetting agent for invert muds							X	X		TH	FL	
L-USA	EMULAM V	Organoclay, V for invert muds							X	X		V		
L-USA	EMULAM V-PLUS	Organoclay, V for invert muds							X	X		V		
L-USA	EMULAM WC	Wetting Agent for invert emulsions							X	X		E	TH	
L-USA	EMULAM WT	Wetting Agent for invert emulsions							X	X		TH	E	
L-USA	HYSTAR	Shale Inhibitor							X	X		SH	LU	
L-USA	INICOR IT	Imidazoline based Corrosion Inhibitor							X	X		SH	LU	
L-USA	INICOR W303	Water soluble CO							X	X		CO	CF	
L-USA	LAMGUM G7F	Viscosifier							X	X		V	FR	SH
L-USA	LAMSPERSE TH	Modified lannin based HT thinner, chrome free							X	X		TH	TE	FL
L-USA	LAMSPERSE 200	Polyacrylate based, chrome free, HT dispersant							X	X		TH	TE	SE
L-USA	LUBRICANT GP479	Ready biodegradable non-tox. LU							X	X		LU	TE	FL
L-USA	LUBRICANT 73	All purpose LU							X	X		LU	TE	FL
L-USA	LUBRICANT EPS	Extreme pressure LU, sulphurised based							X	X		LU	LU	
L-USA	LUBRICANT ROP	Rate of penetration enhancer							X	X		LU	LU	
L-USA	PAG GP	General Purpose Glycol based shale inhibitor							X	X		SH	LU	
L-USA	PRESANTIL USP	Free P Agent for unweighted spotting fluids							X	X		P	LU	
L-USA	PRESANTIL WSP	Free P Agent for weighted spotting fluids							X	X		P	LU	
L-USA	RHEOMATE	Zincium complex de-gelling agent & HT dispersant							X	X		TH	TE	FL
Lamberti	ALBISOL CF	Environ. acceptable washer/spacer	X	X	X	X	X	X	X	X		WBC	CF	
Lamberti	ALBISOL AT	Effective cleaner/spacer	X	X	X	X	X	X	X	X		WBC	CF	
Lamberti	ALBISOL DM	Effective washer/spacer	X	X	X	X	X	X	X	X		WBC	CF	
Lamberti	ALBISOL MCR	Effective washer/spacer	X	X	X	X	X	X	X	X		WBC	CF	
Lamberti	ALBISOL MCS	Effective washer/spacer	X	X	X	X	X	X	X	X		WBC	CF	
Lamberti	ALBISOL OE	Solvent based pipe cleaner	X	X	X	X	X	X	X	X		WBC	CF	
Lamberti	ANTISCALE AC/7	Phosphate-based scale inhibitor	X	X	X	X	X	X	X	X		CA	CA	
Lamberti	ANTISCALE AC/137	Mixed scale inhibitor	X	X	X	X	X	X	X	X		CA	CA	
Lamberti	ANTISCALE AC/58	Polymer-based scale inhibitor	X	X	X	X	X	X	X	X		CA	CA	
Lamberti	BIOLAM XA	Biopolymer derivative polymeric viscosifier	X	X	X	X	X	X	X	X		V	FR	
Lamberti	BIOLAM XA/D	Dispersible biopolymer derivative viscosifier	X	X	X	X	X	X	X	X		V	FR	
Lamberti	BIOLAM XG	Xanthan derivative polymeric viscosifier	X	X	X	X	X	X	X	X		V	FR	
Lamberti	BIOLAM XT	Biopolymer derivative polymeric viscosifier	X	X	X	X	X	X	X	X		V	FR	
Lamberti	CARBOCEL EHV	Tech. gr., extremely high vis. CMC OCMA/API	X	X	X	X	X	X	X	X		X	FR	V
Lamberti	CARBOCEL EHV-S	Semipure gr., extra high vis. CMC	X	X	X	X	X	X	X	X		X	FR	V
Lamberti	CARBOCEL HV	Tech. gr., high vis. CMC	X	X	X	X	X	X	X	X		X	FR	V
Lamberti	CARBOCEL HV-P	Pure gr., high vis. CMC	X	X	X	X	X	X	X	X		X	FR	V
Lamberti	CARBOCEL LV	Tech. gr., low vis. CMC OCMA/API	X	X	X	X	X	X	X	X		X	FR	V
Lamberti	CARBOCEL LV-P	Pure gr., low vis. CMC	X	X	X	X	X	X	X	X		X	FR	V
Lamberti	CARBOCEL LV-S	Semipure gr., low vis. CMC	X	X	X	X	X	X	X	X		X	FR	V
Lamberti	CARBOSAN 135/TR	General purpose biocide	X	X	X	X	X	X	X	X		X	B	
Lamberti	CARBOSAN EF	General purpose biocide	X	X	X	X	X	X	X	X		X	B	
Lamberti	CEPAC LOVIS	Low vis. cost effective poly-anionic cellulose	X	X	X	X	X	X	X	X		X	FR	SH
Lamberti	CEPAC REGULAR	High vis. cost effective poly-anionic cellulose	X	X	X	X	X	X	X	X		X	FR	SH
Lamberti	DEFOMEX	General purpose silicone based D	X	X	X	X	X	X	X	X		D		
Lamberti	DEFOMEX 108N	Low tox. defoamer	X	X	X	X	X	X	X	X		D		
Lamberti	DEFOMEX 200	Effective alkylene oxides defoamer	X	X	X	X	X	X	X	X		D		
Lamberti	DEFOMEX 42	Long chain hydroxy compound, D	X	X	X	X	X	X	X	X		D		
Lamberti	DEFOMEX 610/L	General purpose, high M.W. alcohol-based D	X	X	X	X	X	X	X	X		D		

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CO = Corrosion inhibitors
D = Defoamers
E = Emulsifiers
FR = Filtration reducers
FL = Flocculants
FO = Foaming agents
HPHT = High pressure/high temperature
HPWB = High performance, water-based
HS = Hydrate suppressant
LO = Lost circulation additives
LU = Lubricants
MFCM = Massive lost circulation material
P = Pipe-freeing agents
RDF = Drill-in fluid
SB = Synthetic-based
SH = Shale-control agents
SU = Surface-active agents
TE = Temperature stability agents
TH = Thinners, dispersants
V = Viscosifiers
W = Weighting materials
WBC = Wellbore cleanout
WBM = Water based mud

Available from:	Product Tradename	Description of material	Recommended for these systems							Product Function				
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary	Secondary	Secondary
Lamberti	DEFOMEX 620	Surfactant based D	X	X	X	X	X	X				D		
Lamberti	DEFOMEX 852	Green defoamer	X	X	X	X	X	X				D		
Lamberti	DRILLAM EL	PHPA shale inhibitor	X	X	X	X	X	X				X	SH	FR
Lamberti	DRILLAL T31	Drilling fluids surfactant	X	X	X	X	X	X				WBC	E	
Lamberti	EMULAM ASB	Superwetting agent for invert muds							X	X		SH	TH	E
Lamberti	EMULAM FC	Liquid fluid loss reducer							X	X		FR	E	
Lamberti	EMULAM FL	Liq. fluid loss reducer							X	X		FR	E	
Lamberti	EMULAM HP120	High efficiency thinner & dispersant							X	X		TH	FL	
Lamberti	EMULAM PE	Primary E for invert muds							X	X		E	FR	SU
Lamberti	EMULAM PE/CONC	Concentrated primary emulsifier for all kind of invert emulsion systems							X	X		E	FR	SU
Lamberti	EMULAM PE/S	Versatile primary emulsifier for invert emulsion systems based on synthetics							X	X		E	FR	SU
Lamberti	EMULAM RM	Rheology modifier/V for invert muds							X	X		V	FR	E
Lamberti	EMULAM RM/S	Rheology Modifier for invert emulsion systems based on synthetics							X	X		V	FR	E
Lamberti	EMULAM SE	Secondary E for invert muds							X	X		E	TE	FR
Lamberti	EMULAM SE/CONC	Concentrated secondary emulsifier for all kind of invert emulsion systems							X	X		E	TE	FR
Lamberti	EMULAM SE/S	Versatile secondary emulsifier for invert emulsion systems based on synthetics							X	X		E	TE	FR
Lamberti	EMULAM TH	TH agent for invert muds							X	X		TH	FL	
Lamberti	EMULAM TMR	Temporary rheology modifier anti-sagging							X	X		V	FR	
Lamberti	EMULAM V PLUS	High yield Organoclay / Gelling agent							X	X		V		
Lamberti	EMULAM VAS	Organoclay / Gelling agent							X	X		V		
Lamberti	EMULAM WA	Wetting agent							X	X		SU	TH	
Lamberti	EMULAM WA/S	Wetting Agent for invert emulsion systems based on synthetics							X	X		SU	TH	
Lamberti	FOAMEX S	Anionic foaming agent										X	FO	
Lamberti	FOAMEX TS	Concentrated foaming agent										X	FO	
Lamberti	FOAMEX TX	High performance foaming agent										X	FO	
Lamberti	HYSTAR	Shale inhibitor and clay stabilizer	X	X	X	X	X	X				SH		
Lamberti	HYSPOL FL	High temperature polymeric fluid loss reducer (up to 300F)	X	X	X	X	X	X				FR	HPHT	
Lamberti	INICOR BN	CO ₂ water soluble	X	X	X	X	X	X				CO		
Lamberti	INICOR MF27	CO ₂ oil soluble							X	X		CO		
Lamberti	INICOR R200	CO _{2</}												

World Oil's Fluids

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			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary	Secondary	Secondary
Lubrizol	SURFAZOL 1202A	Oil mud thinner										TH	E	SU
Lubrizol	SURFAZOL 2223	Synthetic oil mud thinner										TH	E	SU
M4 SWACO	ACTIGUARD	Shale & clay inhibitor for the APHRON ICS system				X	X							SH
M4 SWACO	ACTIVATOR I	Thermal stabilizer for the APHRON ICS system				X	X							TE
M4 SWACO	ACTIVATOR II	Thermal stabilizer for the APHRON ICS system				X	X							TE
M4 SWACO	ASPHASOL	Sulfonated organic resin blend			X	X	X	X						SH
M4 SWACO	ASPHASOL D	Sulfonated organic blend		X	X	X	X	X						SH
M4 SWACO	ASPHASOL SUPREME	Sulfonated asphalt		X	X	X	X	X						SH
M4 SWACO	BLUE STREAK	Mud conditioner & air micro-encapsulator for the APHRON ICS system				X	X							SU
M4 SWACO	CAUSTICIG	Causticized lignite		X	X	X	X	X						TH
M4 SWACO	CLEAN UP	Surfactant cleaner		X	X	X	X	X	X					FR
M4 SWACO	CLEANPERF OB	Oil-base perforating system				X	X	X	X					CF
M4 SWACO	CLEANPERF WB	Water-base perforating system				X	X	X	X					CF
M4 SWACO	CONOOR 101	Water-dispersible blended amine				X								CO
M4 SWACO	CONOOR 202B	Persistent filming amine		X	X	X	X	X						CO
M4 SWACO	CONOOR 303A	Brine-soluble filming amine						X						CO
M4 SWACO	CONOOR 404	Phosphorus-base CO		X	X	X	X	X						CO
M4 SWACO	C-SEAL	Medium-sized, carbon-blend plugging agent		X	X	X	X	X	X					LO
M4 SWACO	C-SEAL F	Fine-sized, carbon-blend plugging agent		X	X	X	X	X	X					LO
M4 SWACO	D-D	Drilling detergent		X	X	X	X	X						SU
M4 SWACO	DEFOAM-A	All-purpose alcohol-base D		X	X	X	X	X						D
M4 SWACO	DEFOAM-X	All-purpose liquid D		X	X	X	X	X						D
M4 SWACO	DI-ANTIFOAM	Antifoaming agent for the DIPRO system				X								D
M4 SWACO	DI-BALANCE	Complexer for the DIPRO system				X								V
M4 SWACO	DI-BOOST	Secondary V for the DIPRO system				X								V
M4 SWACO	DI-INHB	Shale inhibitor for the DIPRO system				X								SH
M4 SWACO	DI-TROL	Filtration control agent for the DIPRO system				X								FR
M4 SWACO	DOWFROST MI	Glycol-base packer fluid												
M4 SWACO	DRILFREE	High-performance LU, anti-sticking agent		X	X	X	X	X						LU
M4 SWACO	DRIL-KLEEN	Anti-bit balling agent		X	X	X	X	X						SU
M4 SWACO	DRIL-KLEEN II	Anti-bit balling agent		X	X	X	X	X						SU
M4 SWACO	DRILPLEX	MMO viscosifier				X	X	X						V
M4 SWACO	DRILPLEX HT	MMO viscosifier for high temp. applications				X	X	X						V
M4 SWACO	DRILPLEX LT	MMO viscosifier for low temp. applications				X	X	X						V
M4 SWACO	DRILZONE	ROP enhancer designed for use in GoM		X	X	X								SU
M4 SWACO	DRILZONE L	ROP enhancer designed for use on land		X	X	X								SU
M4 SWACO	DRILZONE NS	ROP enhancer designed for use in the North Sea		X	X	X								SU
M4 SWACO	D-SOLVER	Brine-soluble chelating agent for BREAKDOWN & FAZEBREAK systems				X	X	X						BR
M4 SWACO	D-SOLVER PLUS	Low-pH, brine-soluble chelating agent for BREAKDOWN & FAZEBREAK systems				X	X	X						BR
M4 SWACO	D-SPERSE	Mixed surfactant solution used in BREAKDOWN & FAZEBREAK systems				X	X	X						SU
M4 SWACO	D-STROYER	Internal oxidizer breaker product				X	X	X						BR
M4 SWACO	DUAL-FLO	Fluid-loss additive		X		X	X	X						FR
M4 SWACO	DUAL-FLO HT	Fluid-loss additive for high-temp. applications		X		X	X	X						FR
M4 SWACO	DUO-TEC	Xanthan gum		X	X	X	X	X						V
M4 SWACO	DUO-TEC NS	Xanthan gum, non-dispersible, clarified for North Sea use		X	X	X	X	X						V
M4 SWACO	DUO-VIS	Xanthan gum		X	X	X	X	X						V
M4 SWACO	DUO-VIS L	Liquidified xanthan gum, non-clarified		X	X	X	X	X						V
M4 SWACO	DUO-VIS NS	Xanthan gum, non-dispersible, non-clarified for North Sea use		X	X	X	X	X						V
M4 SWACO	DUO-VIS PLUS	Xanthan gum, dispersible, non-clarified		X	X	X	X	X						V
M4 SWACO	DUO-VIS PLUS NS	Xanthan gum, non-dispersible, non-clarified for North Sea use		X	X	X	X	X						V
M4 SWACO	DURALON	Filtration control high temp. polymer		X	X	X	X	X						FR
M4 SWACO	DUROGEL	Sepiolite clay, meets API specs		X	X	X	X	X						V
M4 SWACO	ECOGREEN B	Ester-base fluid												TH
M4 SWACO	ECOGREEN P	Primary E												E
M4 SWACO	ECOGREEN S	Secondary E												SU
M4 SWACO	ECOKLEEN	Anticreter for tar applications												E
M4 SWACO	ECOTROL 717D	Filtration control resin for diesel												FR
M4 SWACO	ECOTROL RD	Filtrate reducer for the PARALAND system												FR
M4 SWACO	EMUL HT	HTHP E												X
M4 SWACO	ENMROBLEND	Salt for ENMROVERT system												SH
M4 SWACO	FAZE-MUL	E for FAZEPRO system												E
M4 SWACO	FAZE-NET	Wetting agent for FAZEPRO system												SU
M4 SWACO	FER-OK	Hematite, meets API specs		X	X	X	X	X	X					W
M4 SWACO	FILTER FLOC	Chemical filtration aid				X	X	X						FL
M4 SWACO	FLO-LUBE	Lubricant for coiled tubing applications		X		X	X	X						LU
M4 SWACO	FLO-LUBE II	High-performance lubricant for land drilling		X		X	X	X						LU
M4 SWACO	FLO-PLEX	Fluid-loss additive for DRILPLEX system				X								FR
M4 SWACO	FLO-PLEX PLUS	Fluid-loss additive for DRILPLEX system				X								FR
M4 SWACO	FLO-TROL	Starch derivative		X	X	X	X	X						FR
M4 SWACO	FLO-VIS L	Liquid dispersible, clarified xanthan gum		X	X	X	X	X						V
M4 SWACO	FLO-VIS NT	Non-dispersible, non-clarified xanthan gum		X	X	X	X	X						V
M4 SWACO	FLO-VIS PLUS	Premium-gr, dispersible, clarified xanthan gum		X	X	X	X	X						V
M4 SWACO	FLO-WATE	Sized salt material												W
M4 SWACO	FLOXIT	Clay FL		X		X	X	X						FL
M4 SWACO	FORM-A-PLUG ACC	Accelerator for FORM-A-PLUG II system		X	X	X	X	X	X					LO

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HS = Hydrate suppressant
 LO = Lost circulation additives
 LU = Lubricants
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SB = Synthetic-based
 SH = Shale-control agents
 SU = Surface-active agents
 TE = Temperature stability agents
 TH = Thinners, dispersants
 V = Viscosifiers

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			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary	Secondary	Secondary
M4 SWACO	FORM-A-PLUG II	Acid-soluble lost circulation plug	X	X	X	X	X	X	X					LO
M4 SWACO	FORM-A-PLUG RET	Retarder for FORM-A-PLUG II system	X	X	X	X	X	X	X					LO
M4 SWACO	FORM-A-SET	Polymeric lost circulation material	X	X	X	X	X	X	X					LO
M4 SWACO	FORM-A-SET ACC	Accelerator for FORM-A-SET system	X	X	X	X	X	X	X					LO
M4 SWACO	FORM-A-SET AK	Polymeric LO material	X	X	X	X	X	X	X					LO
M4 SWACO	FORM-A-SET RET	Retarder for FORM-A-SET system	X	X	X	X	X	X	X					LO
M4 SWACO	FORM-A-SET XL	Crosslinker for FORM-A-SET system	X	X	X	X	X	X	X					LO
M4 SWACO	GELX	Bentonite extender & selective FL				X								FL
M4 SWACO	GELPLEX	V for the DRILPLEX system				X								V
M4 SWACO	GLYDRIL DG	Water-miscible glycol	X	X	X	X	X	X						TE
M4 SWACO	GLYDRIL GP	Polyalkylene glycol	X	X	X	X	X	X						SH
M4 SWACO	GLYDRIL HC	Polyalkylene glycol	X	X	X	X	X	X						SH
M4 SWACO	GLYDRIL LC	Polyglycol shale inhibitor	X	X	X	X	X	X						SH
M4 SWACO	GLYDRIL MC	Glycerol/glyceride blend	X	X	X	X	X	X						SH
M4 SWACO	GO DEVIL II	Provides LSRV for APHRON ICS system				X								V
M4 SWACO	G-SEAL	Graphite plugging agent	X	X	X	X	X	X	X					LO
M4 SWACO	G-SEAL FINE	Fine-grind graphite plugging agent	X	X	X	X	X	X	X					LO
M4 SWACO	G-SEAL PLUS	Coarse-sized plugging agent	X	X	X	X	X	X	X					LO
M4 SWACO	HBTROL	Fluid loss additive & secondary shale inhibitor	X	X	X	X	X	X						FR
M4 SWACO	HBTROL HV	Fluid loss additive & secondary shale inhibitor	X	X	X	X	X	X						FR
M4 SWACO	HBTROL ULV	Fluid loss additive & secondary shale inhibitor, ultra-low viscosity	X	X	X	X	X	X						FR
M4 SWACO	HBP	Liq V & gelling agent for oil muds												X
M4 SWACO	HYDRABLOK	Deepwater hydrate inhibitor	X	X	X	X	X	X						SU
M4 SWACO	IDCAP D	Polymeric shale inhibitor				X								SH
M4 SWACO	IDLUBE XL	Extreme pressure LU	X	X	X	X	X	X						LU
M4 SWACO	IDSPERSE XT	High temp. polymeric dispersant	X	X	X	X	X	X						TH
M4 SWACO	INHBYCOL XT	Wide molecular-weight glycol	X	X	X	X	X	X						SH
M4 SWACO	IRONITE SPONGE	H2S scavenger	X	X	X	X	X	X						CO
M4 SWACO	K-17	Potassium lignite	X	X	X	X	X	X						TH
M4 SWACO	K-52	Potassium supplement	X	X	X	X	X	X						X
M4 SWACO	KLA-CURE	Hydration suppressant	X	X	X	X	X	X						SH
M4 SWACO	KLA-CURE II	Hydration suppressant	X	X	X	X	X	X						SH
M4 SWACO	KLAFLOC I	Low-cost shale inhibitor for flocc water drilling	X											SH
M4 SWACO	KLAFLOC II	Cationic FL for flocc water drilling	X											FL
M4 SWACO	KLA-GARD	Shale stabilizer	X	X	X	X	X	X						X
M4 SWACO	KLA-GARD B	Salt-free KLA-GARD	X	X	X	X	X	X						X
M4 SWACO	KLA-PLEX	Potassium-base shale inhibitor	X											SH
M4 SWACO	KLA-SENTRY	Shale inhibitor for lignosulfonate muds on land	X											SH
M4 SWACO	KLA-STOP	Liquid polyamine shale inhibitor												X
M4 SWACO	KLA-STOP NS	KLA-STOP variant used in the North Sea												SH
M4 SWACO	LOTORO	Lubricant for FLOPRO NT & FLOPRO SF systems	X	X	X	X	X	X						LU
M4 SWACO	LO-WATE	Acid-soluble, powdered calcium carbonate	X	X	X	X	X	X	X					W
M4 SWACO	LUBE XLS	Extreme-pressure LU	X	X	X	X	X	X						LU
M4 SWACO	LUBE-100	Low-tox. LU	X	X	X	X	X	X						LU
M4 SWACO	LUBE-167	Low-tox. LU	X	X	X	X	X	X						LU
M4 SWACO	LUBE-776	Lubricant for LSNB systems	X											LU
M4 SWACO	LUBE 945	WBM lubricant	X	X	X	X	X	X				</		

World Oil's Fluids

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M4 SWACO	OS-1L	Sulfite-base oxygen scavenger	X	X	X	X	X	X				CO	TE
M4 SWACO	PARADRIL B	Base fluid for the PARADRIL system							X			TH	TH
M4 SWACO	PARALAND B	Base fluid linear paraffin for the PARALAND system							X			TH	TH
M4 SWACO	PARAMIX A	Salt for the PARALAND system							X			SH	SH
M4 SWACO	PARAMIX H	Salt for the PARALAND system							X			SH	SH
M4 SWACO	PARATROL HT	High-temp. gilsonite							X			FL	FL
M4 SWACO	PARAWET	Wetting agent for OBM & SBM							X	X		SU	SU
M4 SWACO	PASSIVATOR I	D for the APHRON ICS system							X	X		D	D
M4 SWACO	PERF-N-PEEL	WBM fluid loss/damage control system for perforated completions							X	X		X	X
M4 SWACO	PIPE-LAX	Oil-base surfactant for freeing stuck pipe	X	X	X	X	X	X				P	P
M4 SWACO	PIPE-LAX ENV	Low-tox. liq. stuck pipe soaking fluid	X	X	X	X	X	X				P	SH
M4 SWACO	PIPE-LAX W EXPORT	Oil-base liq. stuck pipe soaking fluid	X	X	X	X	X	X				P	P
M4 SWACO	POLYPAC ELV	Extra-low vis. PAC	X	X	X	X	X	X				FR	SH
M4 SWACO	POLYPAC R	Polyanionic cellulose	X	X	X	X	X	X				FR	SH
M4 SWACO	POLYPAC SUPREME R	Polyanionic cellulose, premium gr.	X	X	X	X	X	X				FR	SH
M4 SWACO	POLYPAC SUPREME UL	Polyanionic cellulose, premium gr., ultra-low vis.	X	X	X	X	X	X				FR	SH
M4 SWACO	POLYPAC UL	Polyanionic cellulose, ultra-low vis.	X	X	X	X	X	X				FR	SH
M4 SWACO	POLY-PLUS	Liq. high M.W. PHPA polymer	X	X	X	X	X	X				SH	FR
M4 SWACO	POLY-PLUS DRY	Dry PHPA polymer	X	X	X	X	X	X				SH	FR
M4 SWACO	POLY-PLUS LV	Low-vis. PHPA polymer	X	X	X	X	X	X				SH	FR
M4 SWACO	POLY-PLUS RD	Readily-dispersible powdered high M.W. PHPA polymer	X	X	X	X	X	X				SH	FR
M4 SWACO	POLY-SAL	Preserved non-fermenting starch	X	X	X	X	X	X				FR	V
M4 SWACO	POLY-SAL HT	Non-fermenting starch derivative	X	X	X	X	X	X				FR	V
M4 SWACO	POLY-SAL T	Non-fermenting tapioca starch derivative	X	X	X	X	X	X				FR	V
M4 SWACO	PITS-200	Polymeric temperature stabilizer	X	X								TE	TE
M4 SWACO	PITS-530	Alkalinity control agent	X	X								A	A
M4 SWACO	RE-PLEX	Anionic scavenger for DRILPLEX system	X									SC	SC
M4 SWACO	RESINEX	Resinated lignite	X	X	X	X	X	X				FR	TE
M4 SWACO	RESINEX II	Resinated lignite, tech gr.	X	X	X	X	X	X				FR	TE
M4 SWACO	RHEBUILD	V for RHELIANT system							X				
M4 SWACO	RHEDUCE	TH for RHELIANT system							X			TH	TH
M4 SWACO	RHEFLAT	Rheological modifier for RHELIANT system							X				
M4 SWACO	RHEOCHEK	Deflocculant	X	X	X	X	X	X				TH	TH
M4 SWACO	RHEOSPERSER	Polymeric high-temp. deflocculant	X	X	X	X	X	X				TH	TH
M4 SWACO	RHETHK	Rheological modifier for RHELIANT system							X				
M4 SWACO	SAFE-BREAK 611	Non-emulsifier							X			BR	BR
M4 SWACO	SAFE-BREAK CBF	Emulsion preventer for brine							X			SU	SU
M4 SWACO	SAFE-BREAK L	Breaker for brine viscosifier							X	X		BR	BR
M4 SWACO	SAFE-BREAK S	Oxidizing breaker for organic polymers	X	X	X	X	X	X				BR	BR
M4 SWACO	SAFE-BREAK ZINC	Emulsion preventer for zinc bromide brines							X			SU	SU
M4 SWACO	SAFE-CARB	Sized ground marble	X	X	X	X	X	X	X			W	FR
M4 SWACO	SAFE-CIDE	Non-U.S. biocide	X	X	X	X	X	X				B	B
M4 SWACO	SAFE-COR	Brine corrosion inhibitor							X			CO	CO
M4 SWACO	SAFE-COR 220X	Brine corrosion inhibitor							X			CO	CO
M4 SWACO	SAFE-COR C	Brine corrosion inhibitor							X			CO	CO
M4 SWACO	SAFE-COR E	Amine-base CO							X			CO	CO
M4 SWACO	SAFE-COR HT	High temp. brine CO							X	X		CO	CO
M4 SWACO	SAFE-DFOAM	Defoaming agent	X	X	X	X	X	X				D	D
M4 SWACO	SAFE-FLOC I	Flocculant	X	X	X	X	X	X				FL	FL
M4 SWACO	SAFE-FLOC II	Flocculant	X	X	X	X	X	X				FL	FL
M4 SWACO	SAFE-LINK	Filtration control agent for CF systems							X			FR	FR
M4 SWACO	SAFE-LUBE	Water-soluble brine LU							X			LU	LU
M4 SWACO	SAFE-PEEL	Filtercake releasing agent							X			SU	SU
M4 SWACO	SAFE-SCAV CA	Oxygen scavenger for calcium & zinc brines							X			CO	CO
M4 SWACO	SAFE-SCAV HS	Soluble H2S scavenger							X			CO	CO
M4 SWACO	SAFE-SCAV HSW	Soluble H2S scavenger containing methanol							X			CO	CO
M4 SWACO	SAFE-SCAV NA	Oxygen scavenger for sodium & potassium brines							X			CO	CO
M4 SWACO	SAFE-SCAVITE II	Calcium scale preventer							X			CO	CO
M4 SWACO	SAFE-SOLV E	Displacement solvent							X	X		SU	SU
M4 SWACO	SAFE-SOLV OM	Dispersible solvent for O/SBM							X	X		SU	SU
M4 SWACO	SAFE-SURF E	Non-ionic wellbore cleaning agent for OBM & WBM	X	X	X	X	X	X				SU	SU
M4 SWACO	SAFE-SURF NS	Wash chemical							X	X		SU	SU
M4 SWACO	SAFE-SURF O	Displacement wash chemical for O/SBM							X	X		SU	SU
M4 SWACO	SAFE-SURF W	Displacement wash chemical for WBM	X	X	X	X	X	X				SU	SU
M4 SWACO	SAFE-SURF WE	Non-ionic surfactant blend	X	X	X	X	X	X				SU	SU
M4 SWACO	SAFE-SURF WN	Displacement wash chemical for WBM	X	X	X	X	X	X				SU	SU
M4 SWACO	SAFE-T-PICKLE	Non-aromatic, high-flash-point pipe dope solvent	X	X	X	X	X	X				SU	SU
M4 SWACO	SAFE-VIS	V for brine							X			V	FR
M4 SWACO	SAFE-VIS E	Liq. V for brine							X			V	FR
M4 SWACO	SAFE-VIS HDE	Liq. V for high-density brine							X			V	FR
M4 SWACO	SAFE-VIS LE	Liq. V in highly purified mineral oil carrier							X			V	FR
M4 SWACO	SAFE-VIS OGS	Specialty formulated liq. HEC							X			V	FR
M4 SWACO	SALT GEL	Attapulgite clay	X	X	X	X	X	X				V	FR
M4 SWACO	SCREENKLEEN	Prevents accumulation of tar and heavy oil on shaker screens	X	X	X	X	X	X				SU	SU
M4 SWACO	SHALE CHEK	Shale & gumbo control additive	X	X	X	X	X	X				SH	TH
M4 SWACO	SI-1000	Scale inhibitor	X	X	X	X	X	X				CO	CO
M4 SWACO	SILDRIL D	Dry sodium silicate	X	X	X	X	X	X				SH	SH
M4 SWACO	SILDRIL EPL	Extreme-pressure LU for SILDRIL system	X	X	X	X	X	X				LU	LU
M4 SWACO	SILDRIL K	Potassium silicate version for the SILDRIL system	X	X	X	X	X	X				SH	SH
M4 SWACO	SILDRIL L	Liq. sodium silicate	X	X	X	X	X	X				SH	SH

A = Alkalinity (pH control)
B = Bactericides
CA = Calcium removers
CF = Completion fluid
CO = Corrosion inhibitors
D = Defoamers
E = Emulsifiers
FR = Filtration reducers
FL = Flocculants
FO = Foaming agents
HPHT = High pressure/high temperature
HPWB = High performance, water-based
HS = Hydrate suppressant
LO = Lost circulation additives
LU = Lubricants
MLCM = Massive lost circulation material
P = Pipe-freeing agents
RDF = Drill-in fluid

Available from:	Product Tradename	Description of material	Recommended for these systems							Product Function			
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary	Secondary
M4 SWACO	SIL-LUBE	LU for the SILDRIL system	X										LU
M4 SWACO	SP-101	Sodium polyacrylate	X	X								X	FR
M4 SWACO	SPERSENE	Chrome lignosulfonate	X	X	X	X	X	X				TH	FR
M4 SWACO	SPERSENE CFI	Iron lignosulfonate	X	X	X	X	X	X				TH	FR
M4 SWACO	SPERSENE I	Ferrocrome lignosulfonate	X	X	X	X	X	X				TH	TE
M4 SWACO	STARGLIDE	LU & ROP enhancer	X	X	X	X	X	X				TH	FR
M4 SWACO	STEEL LUBE EP	Extreme pressure LU	X	X	X	X	X	X				LU	FR
M4 SWACO	SULFATREAT 410 HP	Odor control agent & H2S scavenger	X	X	X	X	X	X				CO	CO
M4 SWACO	SULFATREAT DFS	H2S scavenger	X	X	X	X	X	X				CO	CO
M4 SWACO	SULFATREAT XLP	Extended life H2S scavenger	X	X	X	X	X	X				CO	CO
M4 SWACO	SUPRAVIS	High-performance V	X	X	X	X	X	X				V	V
M4 SWACO	SUREMOD	V, gelling agent for syn. fluid emulsion muds							X				
M4 SWACO	SUREMUL	Primary E for syn. fluid emulsion muds							X			E	SU
M4 SWACO	SUREMUL EH	Primary E for syn. fluid emulsion muds							X			E	FR
M4 SWACO	SURETHK	Rheological modifier							X			V	SH
M4 SWACO	SURETHN	TH for synthetic system							X			TH	SU
M4 SWACO	SUREWET	Wetting agent for syn. fluid emulsion muds							X			SU	E
M4 SWACO	SV-120	Hydrogen sulfide scavenger for cold climates							X			CO	CO
M4 SWACO	SWA EH	OBM wetting agent for high brine-content sys.							X			SU	E
M4 SWACO	TACKLE	Liq. low M.W. polyacrylate	X	X								TH	TH
M4 SWACO	TACKLE DRY	Powdered low M.W. polyacrylate	X	X								TH	TH
M4 SWACO	TANNATHIN	Ground lignite	X	X	X	X	X	X				TH	FR
M4 SWACO	TARCLEAN	Anticrete for heavy oil to thin asphaltenes							X			SH	SH
M4 SWACO	TARLIFT	Solvent mixture for the SAGDRIL system							X	X		SU	SU
M4 SWACO	TARSURF	Water-wetter for the SAGDRIL system							X	X		SU	V
M4 SWACO	TARVIS L	Liq. V for the SAGDRIL system							X	X		V	V
M4 SWACO	THINSMART	Thinner	X	X	X	X	X	X				TH	TH
M4 SWACO	THRUCARB	Carbonate for the FLOTHRU system	X						X			FR	FR
M4 SWACO	THRUTROL	Hydrophobic starch for the FLOTHRU system	X						X			FR	FR
M4 SWACO	TROL-PLEX	Modified starch							X			FR	FR
M4 SWACO	TRUMS	V for TRUDRIL system							X			V	FR
M4 SWACO	ULTRACAP	Encapsulator for the ULTRADRIL system							X	X		SH	SH
M4 SWACO	ULTRACAP NS	Biodegradable shale encapsulator							X	X		SH	SH
M4 SWACO	ULTRACAP PLUS	Polymeric shale inhibitor for the ULTRADRIL system							X	X		SH	SH
M4 SWACO	ULTRAFREE	ROP enhancer for the ULTRADRIL system							X	X		SU	LU
M4 SWACO	ULTRAFREE II	ROP enhancer for the ULTRADRIL system especially with PDC bits							X	X		SU	LU
M4 SWACO	ULTRAFREE L	ROP enhancer for the ULTRADRIL system designed for land use							X	X		SU	LU
M4 SWACO	ULTRAFREE NH	Non-hydrocarbon version of ULTRAFREE							X	X		SU	LU
M4 SWACO	ULTRAFREE NS	ROP enhancer for the ULTRADRIL system in the North Sea							X	X		SU	LU
M4 SWACO	ULTRAHIB	Shale inhibitor for the ULTRADRIL system							X	X		SH	SH
M4 SWACO	ULTRAHIB NS	ULTRAHIB variant for the North Sea							X	X		SH	SH
M4 SWACO	UNIPAC SUPREME R	Modified PAC	X	X	X	X	X	X				FR	FR
M4 SWACO	UNIPAC SUPREME UL	Modified PAC, ultra-low viscosity	X	X	X	X	X	X				FR	SH
M4 SWACO	UNITROL	Polysaccharide	X	X	X	X	X	X				FR	FR
M4 SWACO	VERSACLEAN B	Base fluid for the VERSACLEAN system							X			TH	LU
M4 SWACO	VERSACOAT	E for oil mud							X			E	SU
M4 SWACO	VERSACOAT HF	E for oil mud											

World Oil's Fluids

Available from:	Product Tradename	Description of material	Recommended for these systems						Product Function					
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary	Secondary	Secondary
M4 SWACO	XP-20 N	Chrome lignite, sodium hydroxide, neutralized	X	X	X	X	X	X				TE	TH	FR
M4 SWACO	XP-20K	Potassium chrome lignite	X	X	X	X	X	X				TE	TH	FR
M&D	POLY PLUG CLEAR GEL	Solids free crosslinking polymer	X	X	X	X	X	X				MCLM		LO
M&D	POLY PLUG ULTRASQUEEZE	De-watering crosslinking polymer	X	X	X	X	X	X				MCLM		LO
M&D	ULTRA SEAL-C	Sized cellulosic fibers for lost circulation	X	X	X	X	X	X				MCLM	LO	SH
M&D	ULTRA SEAL-PLUS	Fibrous, granular & flake material for massive lost circ.	X	X	X	X	X	X				MCLM	LO	LO
M&D	ULTRA SEAL-POLY PLUG	Single-sack blend of sized fibers and crosslinking polymer	X	X	X	X	X	X				MCLM	LO	LO
M&D	ULTRA SEAL-TG	Tech grade cellulosic fibers	X	X	X	X	X	X				X	LO	SH
M&D	ULTRA SEAL-XLA	Crosslink polymer, temp. accelerator	X	X	X	X	X	X				MCLM	LO	LO
M&D	ULTRA SEAL-XLD	Crosslink polymer, mixing enhancer	X	X	X	X	X	X						D
M&D	ULTRA SEAL-XLR	Crosslink polymer, temp. retarder	X	X	X	X	X	X				MCLM	LO	LO
M&D	ULTRA SEAL-XP	Specific blend of micronized cellulose fibers	X	X	X	X	X	X				X	LO	SH
M&D	ULTRA SPACER	Non-invasive mud spacer	X	X	X	X	X	X						LO
MASI	ACTIGUARD	Shale & clay inhibitor	X	X	X	X	X	X				X	SH	LU
MASI	ACTIPAC	One Sack Fluid	X	X	X	X	X	X				HPWB		FR
MASI	ACTIVATOR I	Thermal stabilizer for the AphronICS system				X	X					TE		SU
MASI	ACTIVATOR II	pH and alkalinity additive	X	X	X	X	X	X				H	A	TE
MASI	ACTIVS LSR	Rheological Enhancer	X	X	X	X	X	X				APWB		V
MASI	APHRONIZER A	Aphron shell enhancer	X	X	X	X	X	X						SU
MASI	APHRONIZER B	Aphron shell enhancer	X	X	X	X	X	X						SU
MASI	Blue-Cide	Microbicide	X	X	X	X	X	X				X	B	V
MASI	BLUE STREAK	Mud conditioner & air micro-encapsulator for the AphronICS system	X	X	X	X	X	X				X	SU	V
MASI	GO-DEVIL II	Provides LSRV for AphronICS system				X	X					V		FR
MASI	MICRODYNE L	Aphron generator & stabilizer				X	X					SU		E
MASI	PKSIVATOR I	Defoamer	X	X	X	X	X	X						D
MASI	PLASTICIZER	Aphron shell Stabilizer	X	X	X	X	X	X						SU
MASI	POLY-MUL	Invert Emulsifier				X	X							SU
MASI	POLY-Q	LSRV booster/PolyphronICS enhancer				X	X					V		SU
MASI	POLY-WS	Primary rheological modifier for PolyphronICS system				X	X							SU
MASI	POLY-WET	Oil wetting agent				X	X							SU
MASI	TRI-VIS	Primary rheological modifier for PolyphronICS system				X	X							V
MASI	TRI-VIS cP+	Rheological modifier for PolyphronICS system				X	X							V
MASI	NATURE-FLOC	Natural Polymer Flocculant	X	X	X	X	X	X						FL
Mayco	MAYCO-CALWATE	Calcium carbonate	X	X	X	X	X	X						W
Mayco	MAYCO-CARB	Non-thixotropic polymeric blend, graded & sized carbonates	X	X	X	X	X	X				V	FR	SH
Mayco	MAYCO-CORCID	CO ₂ oxygen scavenger, biocide	X	X	X	X	X	X				B		CO
Mayco	MAYCO-DEFOAM	All-purpose D	X	X	X	X	X	X						D
Mayco	MAYCO-FLC	Blend of selected non-ionic polymers for fluid loss control	X	X	X	X	X	X						FR
Mayco	MAYCO-FLOW	Blend of selected polymers, lignosulfonates & sized calcium carbonates	X	X	X	X	X	X						FR
Mayco	MAYCO-HELP	Polymeric temp. extender	X	X	X	X	X	X						TE
Mayco	MAYCO-KUAYTROL	Blend of rigid non-ionic polymer, chloride free, potassium & ammonium salts	X	X	X	X	X	X						SH
Mayco	MAYCO-LIVIS	Liq. HEC polymer	X	X	X	X	X	X						V
Mayco	MAYCO-MAD SEAL	Acid-degradable blend of granules, flakes & fibrous material	X	X	X	X	X	X						LO
Mayco	MAYCO-MAPP	Blend of non-ionic drilling polymers	X	X	X	X	X	X						V
Mayco	MAYCO-pH BUFFER	Magnesium oxide	X	X	X	X	X	X						A
Mayco	MAYCO-SEAL	Graded & sized calcium carbonates	X	X	X	X	X	X						LO
Mayco	MAYCO-SEAL COARSE	Graded & sized calcium carbonates	X	X	X	X	X	X						LO
Mayco	MAYCO-SEAL MEDIUM	Graded & sized calcium carbonates	X	X	X	X	X	X						LO
Mayco	MAYCO-SLURRY	Polymers, lignosulfonates & graded/sized calcium carbonates	X	X	X	X	X	X						LO
Mayco	MAYCO-TREAT	Surfactants for emulsion & water block prevention	X	X	X	X	X	X						SU
Mayco	MAYCO-VIS	Thixotropic polymers & sized calcium carbonates	X	X	X	X	X	X						V
Mayco	MAYCO-VIS EXTRA	Free-flowing HEC	X	X	X	X	X	X						V
Messina	BIOVIS	Standard drilling grade biopolymer	X	X	X	X	X	X						V
Messina	BIOVIS-D	Dispersible biopolymer	X	X	X	X	X	X						V
Messina	BIOVIS-P	Premium xanthan biopolymer	X	X	X	X	X	X						V
Messina	BORE-SWEEP	Hole Sweep/Cleaning Agent	X	X	X	X	X	X						V
Messina	BORE-TROL	SH/mud conditioner	X	X	X	X	X	X						SH
Messina	CAVI-SEAL-AS	Acid soluble HT LCM	X	X	X	X	X	X						LO
Messina	CELTROL-LV	Organic polymer	X	X	X	X	X	X						FR
Messina	CELTROL-SP1	Tech. grade CMC	X	X	X	X	X	X						FL
Messina	OIDE-COR	CO/biocide	X	X	X	X	X	X						CO
Messina	OIDE-COR-PLUS	CO/biocide	X	X	X	X	X	X						CO
Messina	DIAPLUG	High-filtration lost circ. squeeze	X	X	X	X	X	X						LO
Messina	FERRO-SPONGE	H2S remover	X	X	X	X	X	X						CO
Messina	FILTRACEL	Tech. grade CMC	X	X	X	X	X	X						FR
Messina	FILTRAL	Modified polysaccharide	X	X	X	X	X	X						FR
Messina	FILTRAL-LV	Carboxymethylated polymer	X	X	X	X	X	X						FR
Messina	FILTRAL-PLUS	Premium modified hydrocolloid	X	X	X	X	X	X						FR
Messina	FOAM-FREE-A	Defoamer liquid	X	X	X	X	X	X						D
Messina	FOAM-FREE-ALS	Powdered defoamer	X	X	X	X	X	X						D
Messina	FOAM-FREE-V	Liquid defoamer	X	X	X	X	X	X						D
Messina	FOAM-FREE-WF 9	Liquid antifoam agent	X	X	X	X	X	X						D
Messina	GB-SEAL	Blended cementitious gunk squeeze	X	X	X	X	X	X						LO
Messina	HZLESS	Liquid H2S extractor	X	X	X	X	X	X						CO
Messina	HI-THIN	New generation organic TH	X	X	X	X	X	X						TH

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Messina	HI-THIN-4I	New generation organic TH	X	X	X	X	X	X						TH
Messina	HI-THIN-III	New generation organic TH	X	X	X	X	X	X						TH
Messina	HI-WATE	Galena	X	X	X	X	X	X						W
Messina	HOLE-SEAL-II	Fibrous LCM	X	X	X	X	X	X						LO
Messina	HOLE-SEAL-OB	Fibrous LCM	X	X	X	X	X	X						LO
Messina	HOTGEL	Sepidilite	X	X	X	X	X	X						V
Messina	HYDRO-WET	Surfactant wetting agent/dispersant	X	X	X	X	X	X						SU
Messina	KLEEN-BAR	Barium carbonate	X	X	X	X	X	X						CO
Messina	KLEEN-BLOCK	Sized carbonates	X	X	X	X	X	X						W
Messina	KLEEN-BLOCK-X	Maximum-sized carbonates	X	X	X	X	X	X						LO
Messina	KLEEN-BRIDGE	Oil-soluble resin	X	X	X	X	X	X						FL
Messina	KLEEN-CON	Environmentally friendly invert emulsifier, E	X	X	X	X	X	X						E
Messina	KLEEN-DRIL	Polymer blend	X	X	X	X	X	X						FR
Messina	KLEEN-DRIL-II	1-bag dtg polymer blend	X	X	X	X	X	X						FR
Messina	KLEEN-MUL-L	Environmentally friendly invert emulsifier, E	X	X	X	X	X	X						E
Messina	KLEEN-OL	Low-tox., and synthetic base oils	X	X	X	X	X	X						FR
Messina	KLEEN-PAK	Polymer packer fluid	X	X	X	X	X	X						V
Messina	KLEEN-PL	Polymer blend	X	X	X	X	X	X						A
Messina	KLEEN-SEAL	Polymer/carbonate blend	X	X	X	X	X	X						LO
Messina	KLEEN-SWEEP	Brine Clarifier	X	X	X	X	X	X						FL
Messina	KLEEN-THIN	Surfactant for low-tox. & synthetic invert muds	X	X	X	X	X	X						TH
Messina	KLEEN-VIS	Polymer/carbonate blend	X	X	X	X	X	X						V
Messina	KLEEN-VIS-2	Low residue polysaccharide	X	X	X	X	X	X						FR
Messina	KLEEN-VIS-X	Non-damaging polymer	X	X	X	X	X	X						V
Messina	KLEEN-VIS-XL	Liq. non damaging polymer	X	X	X	X	X	X						V
Messina	KLEEN-WATE	Heavy clear brines	X	X	X	X	X	X						W
Messina	KLEEN-WET	Wetting agent: low-tox. & synthetic invert muds	X	X	X	X	X	X						SU
Messina	MARITE	Hemattite	X	X	X	X	X	X						W
Messina	MEGA-LINK	LCM crosslinker	X	X	X	X	X	X						A
Messina	MEGA-SEAL	Polymer LCM	X	X	X	X	X	X						LO
Messina	MESUCO-BAR	Barite	X	X	X	X	X	X						W
Messina	MESUCO-BEN	OCMA bentonite	X	X	X	X	X	X						V
Messina	MESUCO-BEN-M	Special drilling clay	X	X	X	X	X	X						FR
Messina	MESUCO-CL	Causitized lignite	X	X	X	X	X	X						TH
Messina	MESUCO-CRCL	Chrome causticized lignite	X	X	X	X	X	X						TH
Messina	MESUCO-FIBER	Fibrous LCM	X	X	X	X	X	X						LO
Messina	MESUCO-FLAKE	Collophane flakes	X	X	X	X	X	X						LO
Messina	MESUCO-FOAM	Foaming agent	X	X	X	X	X	X						FO
Messina	MESUCO-GEL	API bentonite	X	X	X	X	X	X						V
Messina	MESUCO-KL	Potassium humate	X	X	X	X	X	X						TH
Messina	MESUCO-LIG	Lignite	X	X	X	X	X	X						TH
Messina	MESUCO-MICA	Mica LCM	X	X	X	X	X	X						LO
Messina	MESUCO-PLUG	Ground nut shells	X	X	X	X	X	X						LO
Messina	MESUCO-SALT-CLAY	Attapulgite	X	X	X	X	X	X						V
Messina	MESUCO-SEAL	Blended LCM	X	X	X	X	X	X						LO
Messina	MESUCO-SORB	Powdered H2S remover	X	X	X	X	X	X						CO
Messina	MESUCO-SUPER-GEL	Extended bentonite	X	X	X	X	X	X						

World Oil's Fluids

Available from:	Product Tradename	Description of material	Recommended for these systems					Product Function		
			Non-dispersed Dispersed	Calcium-treated Polymer	Saturated salt Low solids	Oil-based Synthetic-based	Air, mist, foam, gas	Primary	Secondary	Secondary
Messina	REDI-COAT-PLUS	Encapsulating polymer	X	X	X			SH	V	FL
Messina	REDI-COAT-XL	Encapsulating polymer, low visc.	X	X	X			SH	V	FR E
Messina	REDI-DRILL	Full-function drilling polymer	X	X	X	X		V	FR	E
Messina	REDI-FLO-NHV	Selected cellulosic ether polymer	X	X	X	X	X	V	FL	
Messina	REDI-FLO-NLV	Selected cellulosic ether polymer	X	X	X	X	X	V	FL	
Messina	REDI-PH	Buffered A agent	X	X	X	X		X	A	
Messina	REDI-THIN	Polymeric thinner	X	X	X	X		TH	E	FR
Messina	REDI-YIO	Polymer thermal stabilizer	X	X	X	X		TE		FL
Messina	RHEOTHIN	Modified lignosulfonate	X	X	X	X		TH	E	FR
Messina	RHEOTHIN-CF	Chrome-free lignosulfonate	X	X	X			TH	E	FR
Messina	RHEOTHIN-CF-II	Modified, chrome-free lignosulfonate	X	X	X			TH	E	FR
Messina	RHEOTHIN-HT	Polymer-modified lignin	X	X	X			TH	E	FR
Messina	SLICKPIPE	Lubricity agent	X	X	X	X		LU		
Messina	SLICKPIPE-EP	Extreme-pressure LU	X	X	X	X		LU		
Messina	SLICKPIPE-EP-II	Emr. safe extreme-pressure LU	X	X	X	X		LU		
Messina	SLICKPIPE-NT	Spotting surfactant	X	X	X	X		LU		
Messina	SQUBLE-WATE	Calcium carbonate	X	X	X	X	X	W		
Messina	SORB-OX-L	Liq. oxygen scavenger	X	X	X	X		CO		
Messina	SORB-OX-P	Powdered oxygen scavenger	X	X	X	X		CO		
Messina	STARHX	Stabilized polysaccharide	X	X	X	X		FR		
Messina	STARHX-PLUS	Premium preserved hydrocolloid	X	X	X	X		FR	V	
Messina	STUCKBREAKER	Spotting fluid surfactant	X	X	X	X		P		
Messina	STUCKBREAKER-ES	Emulsion, safe spotting	X	X	X	X		P		
Messina	STUCKBREAKER-W	Spotting surfactant	X	X	X	X		P		
Messina	SUPER-BORE-TROL	Potassium shale stabilizer	X	X	X			SH	FR	LU
Messina	SUPER-STOP	Complex dry powder formulation	X	X	X	X		MCLM	V	
Messina	SUPER-STOP-AS	Acid-soluble LCM	X	X	X	X		MCLM	V	
Messina	SURF-ACT	Nonionic mud surfactant	X	X	X			SU	TE	SH
Messina	THERMO-SEAL	Asphaltic shale stabilizer	X	X	X	X	X	SH	LU	FR
Messina	THERMO-TROL-FL	High temp. liq. filtration polymer, HPHT, HPWB	X	X	X	X		SH	TE	FR
Messina	THERMO-TROL-X	High temp. stabilizer, cond., HPHT, HPWB	X	X	X			TE	TH	E
Messina	TRU-OIL	Oil mud basic package	X	X	X	X		V	E	TE
Messina	ULTRACEL	High-purity CMC	X	X	X	X		FR	V	SH
Messina	VISFO	Polyanionic cellulosic polymer	X	X	X	X		FR	V	SH
Messina	VIS-PAC	Tech Grade Polyanionic cellulosic polymer	X	X	X	X	X	FR	V	SH
Messina	VIS-X	Xanthan biopolymer derivative	X	X	X	X		V		
Messina	WELCODE-52	Liq. biocide concentrate	X	X	X	X		X	B	
Messina	WELCODE-52ZE	Liquid biocide	X	X	X	X		X	B	
Messina	WELCODE-75	Liq. biocide, CO ₂ scavenger	X	X	X	X		X	B	
Messina	WELCODE-HT	Thiocarbamate-type B	X	X	X	X		X	B	
Messina	WELCODE-L	Liquid biocide	X	X	X	X		X	B	
Montello	HME ENERGIZER	Selective non-toxic SU for wetting asphalt & asphalt-like prod.	X	X	X	X		SU		
Montello	MON PAC	Polyanionic cellulose	X	X	X	X		FR	V	SH
Montello	MON PAC ULTRA LO	Low vis. polyanionic cellulose	X	X	X	X		FR	V	SH
NER	PERFORBER	Crust breaker	X	X	X	X	X	LU	MCLM	LU
NER	NER BioLube	Proprietary blend of non-toxic oils	X	X	X	X	X	LU	SU	FR
Nako	ASP 700	High M.W./shale stabilizer	X	X	X	X		X	SH	FR
Nako	ASP 713	High M.W./shale stabilizer	X	X	X	X		X	SH	FR
Nako	ASPI85	Multipurpose FO; anionic, hydrocarbon tolerant	X	X	X	X		FO		
Nako	EO9349A	High MW latex polymer: anionic viscosifier, shale stabilizer	X	X	X	X		V	SH	
Nako	N-9806	Shale stabilizer	X	X	X			SH	V	
Newpark	CyberCoat	Fibrous seepage control agent	X	X	X	X		LU	FR	
Newpark	CyberMud	Surfactant	X	X	X	X		SU	E	FR
Newpark	CyberPlus	Low-toxicity emulsifier	X	X	X	X		E	SU	FR
Newpark	CyberSeal	Low-toxicity emulsifier	X	X	X	X		E	SU	FR
Newpark	CyberTrol	Polymeric HTHP FR	X	X	X	X		FR	HTHP	
Newpark	CyberVis	Organo-bentonite	X	X	X	X		V	FR	
Newpark	CyberVis DW	Polymeric rheological modifier	X	X	X	X		V	FR	
Newpark	CyberVis HT	Organo-hectorite	X	X	X	X		V	FR	
Newpark	CyberVis RM	Polymeric rheological modifier	X	X	X	X		V	E	FR
Newpark	DeepDrill Inhibitor	Proprietary HPWB shale inhibitor	X	X	X	X		SH	HS	LU
Newpark	DeepVis	Septilite	X	X	X	X		V		
Newpark	DynaCol	Glycol shale inhibitor	X	X	X	X		SH	LU	
Newpark	DynaDet	Defoamer	X	X	X	X		SU	LO	FR
Newpark	DynaFiber	Micronized cellulose	X	X	X	X	X	LO	LU	FR
Newpark	DynaFree	Blend of lubricants & surfactants	X	X	X	X		V		
Newpark	DynaLose CM	Modified starch	X	X	X	X		FR	V	
Newpark	DynaLose M	White starch	X	X	X	X		FR	V	
Newpark	DynaLose Y	Yellow starch	X	X	X	X		FR	V	
Newpark	DynaMud 204	Proprietary E / surfactant	X	X	X	X		E	SU	
Newpark	DynaNile	Gilsonite	X	X	X	X	X	FR	SH	LU
Newpark	DynaPex	Resin	X	X	X	X		FR		
Newpark	DynaPlug	Fibers, polymer & crosslink	X	X	X	X	X	LU	MCLM	
Newpark	DynaSlide	Blend of organic LU	X	X	X	X		LU		
Newpark	DynaSqueeze	Untreated montmorillonite	X	X	X	X	X	MCLM		
Newpark	DynaThin	Sulfonated polymeric deflocculant	X	X	X	X		TH	TE	FR
Newpark	DynaVert SFT	One sack blend of E & gellants	X	X	X	X		P		
Newpark	FlexFirm KA	Potassium silicate shale stabilizer	X	X	X	X		HS	SH	HPWB
Newpark	FlexThin HTZ	Zincium complex	X	X	X	X		TH	TE	FR
Newpark	Gilsonite Coupler	Non-ionic gilsonite surfactant	X	X	X	X		SU		
Newpark	HPERM	Amine shale stabilizer	X	X	X	X		RDF	SH	FR
Newpark	LST-Md	Liq. sulfonated asphalt	X	X	X	X		SH	FR	
Newpark	New100	Blend of polyglycerines	X	X	X	X		HS	SH	LU
Newpark	New100N	Blend of polyglycerines	X	X	X	X		HS	SH	LU
Newpark	NewAmor	Film forming amine	X	X	X	X		CO		
Newpark	NewBar	Barite	X	X	X	X	X	W		
Newpark	NewBridge	Sweep / bridging material	X	X	X	X	X	WBC		
Newpark	NewCarb	Sized calcium carbonate	X	X	X	X		LO	W	
Newpark	NewCarb Ultimix	Coarse calcite/marble	X	X	X	X		LO	W	
Newpark	NewCase 203	Modified ester	X	X	X	X		LU	SH	
Newpark	NewCase HT	Synthetic LU	X	X	X	X		LU	SH	
Newpark	NewEdge	High grade leonardite	X	X	X	X	X	FR	TH	FR
Newpark	NewFlow	Ferrichrome lignosulfonate	X	X	X	X		TH	FR	E
Newpark	NewLow CF	Chrome-free lignosulfonate	X	X	X	X		TH	FR	E
Newpark	NewGel	Bentonite	X	X	X	X		V	FR	
Newpark	NewGel NT	Untreated bentonite	X	X	X	X		V	FR	
Newpark	NewLig	Lignite	X	X	X	X		FR	TH	E
Newpark	NewLig C	Coal-fired lignite	X	X	X	X		FR	TH	E
Newpark	NewPac LV	Polyanionic cellulose	X	X	X	X		FR	V	
Newpark	NewPac R	Polyanionic cellulose	X	X	X	X		FR	V	
Newpark	NewPhalt	Sulphonated asphalt	X	X	X	X		SH	FR	
Newpark	NewPhase	Blend of polyglycerines	X	X	X	X		SU		
Newpark	NewPPA	PPHA	X	X	X	X		SH	V	
Newpark	NewPPA D	PPHA	X	X	X	X		SH	V	
Newpark	NewPPA DMW	Low molecular weight anionic PPHA	X	X	X	X		SH	V	
Newpark	NewPPA DSL	Very low molecular weight PPHA	X	X	X	X		SH	V	

- A = Alkalinity (pH control)
- B = Bactericides
- CA = Calcium removers
- CF = Completion fluid
- CO = Corrosion inhibitors
- D = Defoamers
- E = Emulsifiers
- FR = Filtration reducers
- FL = Flocculants
- FO = Foaming agents
- HPHT = High pressure/high temperature
- HPWB = High performance, water-based
- HS = Hydrate suppressant
- LO = Lost circulation additives
- LU = Lubricants
- MCLM = Massive lost circulation material
- RDF = Drill-in fluid
- SH = Shale-control agents
- SU = Surface-active agents
- TE = Temperature stability agents
- TH = Thinners, dispersants
- V = Viscosifiers
- W = Weighting materials
- WBC = Wellbore cleanout
- WBM = Water based mud

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Available from:	Product Tradename	Description of material	Recommended for these systems					Product Function		
			Non-dispersed Dispersed	Calcium-treated Polymer	Low solids Saturated salt	Oil-based Synthetic-based	Air, mist, foam, gas	Primary	Secondary	Secondary
Newpark	NewPlug	Nut shells	X	X	X	X	X			
Newpark	NewSeal	Sized carbonaceous seepage agent	X	X	X	X	X		LO	LU
Newpark	NewThin	Sodium polyacrylate	X	X	X	X	X		TH	TE
Newpark	New X-Prima	One sack high solids, high fluid loss LCM squeeze	X	X	X	X	X		MCLM	
Newpark	NewZan D	Biopolymer	X	X	X	X	X		V	FR
Newpark	NoFoam	Defoamer for WBM	X	X	X	X	X		E	SU
Newpark	NoFoam A	Alcohol-base defoamer	X	X	X	X	X		D	
Newpark	NoFoam X	Concentrated defoamer	X	X	X	X	X		D	
Newpark	Oil Dry	Oil absorbent	X	X	X	X	X			
Newpark	OptiClean	Blend of surfactants	X	X	X	X	X		SU	FR
Newpark	OptiG	Gilsonite	X	X	X	X	X		FR	SH
Newpark	OptiLig	Amine treated lignite	X	X	X	X	X		FR	FR
Newpark	OptiMud	Primary emulsifier	X	X	X	X	X		E	SU
Newpark	OptiPlus	Secondary emulsifier	X	X	X	X	X		E	SU
Newpark	OptiThin	Organic thinner	X	X	X	X	X		Y	TH
Newpark	OptiTral	Polymeric HTHP FR	X	X	X	X	X		FR	HTHP
Newpark	OptiVis	Organo-bentonite	X	X	X	X	X		V	FR
Newpark	OptiVis HT	Organo-hectorite	X	X	X	X	X		V	FR
Newpark	OptiVis PS	Polymeric viscosifier	X	X	X	X	X		X	V
Newpark	OptiVis RM	Polymeric rheological modifier	X	X	X	X	X		X	V
Newpark	OptiWell	Oil wetting agent	X	X	X	X	X		SU	E
Newpark	TopSeal	Non-toxic organic blend	X	X	X	X	X		X	SB
Newpark	RADAGREEN BDMF	Envr. friendly synthetic-based	X	X	X	X	X		X	SB
Newpark	RADAGREEN BDMF VLV	Envr. friendly synthetic-based	X	X	X	X	X		X	SB
Newpark	RADAGREEN CLO	Stimulation additive & mud cake breaker	X	X	X	X	X		X	SB
Newpark	RADAGREEN CLW	Surface & cased hole cleaner	X	X	X	X	X		SU	SU
Newpark	RADAGREEN EBL	Ester-based LU for water-based muds	X	X	X	X	X		LU	P
Newpark	RADAGREEN EBO	Multi purposes envr. friendly LU & ROP enhancer	X	X	X	X	X		LU	P
Newpark	RADAGREEN EME SALT	Envr. friendly LU for heavy brines	X	X	X	X	X		LU	P
Newpark	RADAGREEN EMU	Oil mud emulsifier	X	X	X	X	X		E	SU
Newpark	RADAGREEN RA	Reservoir enhancer	X	X	X	X	X		SU	SU
Newpark	RADAGREEN SL	Envr. friendly LU for high ph water based (silicate muds)	X	X	X	X	X		LU	P

World Oil's Fluids

Available from:	Product Tradename	Description of material	Recommended for these systems							Product Function		
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary
Spec Prod	PRODUCT 5014	Iron-control sequestering agent	X	X	X	X	X	X		X	SU	CO
Spec Prod	PRODUCT 6014	Concentrated drilling detergent	X	X	X	X	X	X		X	SU	TH
Spec Prod	PRODUCT 6016	Primary oil mud E										
Spec Prod	PRODUCT 6044	Cleaner degreaser	X	X	X	X	X	X	X	X	SU	TH
Spec Prod	PRODUCT 6049	Oil mud secondary E								X	E	FR
Spec Prod	PRODUCT 6050	Oil mud primary E								X	E	FR
Spec Prod	PRODUCT 6055	Concentrated pipe-freeing material	X	X	X	X	X	X		X	P	
Spec Prod	PRODUCT 6064	Drilling fluid LU	X	X	X	X	X	X			LU	SH SU
Spec Prod	PRODUCT 6065	Oil mud E conc.							X	X	E	SU
Spec Prod	PRODUCT 6101	Oil mud secondary E										E FR
Spec Prod	PRODUCT 63	Emulsifier & wetting agent							X	X	FR	
Spec Prod	PRODUCT 7012	Concentrated D	X	X	X	X	X	X			D	
Spec Prod	PRODUCT 7013	Foaming agent	X	X	X	X	X	X		X	FO	E
Spec Prod	PRODUCT 71	Oxygen scavenger	X	X	X	X	X	X		X	CO	
Strata	FOAM-BLAST	De-foaming agent	X	X	X	X	X	X			D	
Strata	FRAC-ATTACK	PKG lost circulation pill-on-a-pallet mixed in drill water	X	X	X	X	X	X	X	X	MLCM	
Strata	STRATA-FLEX - F&M	Elastomeric sealant	X	X	X	X	X	X		X	LO	FR MLCM
Strata	STRATA-LCM	Med. gr. blend of cellulose fibers	X	X	X	X	X	X			LO	FR MLCM
Strata	STRATA-SOM	Fine grade blend of cellulose fibers	X	X	X	X	X	X	X	X	LO	FR MLCM
Strata	STRATA-TROL	Preocoupled gilsonite & select resins	X	X	X	X	X	X	X	X	HTHP	SH FR
Strata	STRATA-VANGUARD	PKG lost circulation pill-on-a-pallet mixed in drilling mud	X	X	X	X	X	X	X	X	MLCM	
Strata	STRATA-LUBE	Liquid Lubricant for Drilling & Sliding	X	X	X	X	X	X			LU	
Sun	BLACKNITE	Multi-particle well bore strengthener	X	X	X	X	X	X	X		SH	FR LU
Sun	C-MUL	PRO-ROP enhancer	X	X	X	X	X	X			LU	SH
Sun	COASTAL LUBE	PRO-base LU/ROP enhancer	X	X	X	X	X	X			LU	SH
Sun	COASTAL SPOT	Envr.-safe spotting fluid	X	X	X	X	X	X			P	LU
Sun	DRILCON-D	Liq. shale inhibitor	X	X	X	X	X	X			SH	
Sun	EK-2000	Degreaser	X	X	X	X	X	X	X	X		
Sun	EzeSlide	Lubricant/Friction Reducer	X	X	X	X	X	X			LU	SU
Sun	FOAMBUSTER	Defoamer	X	X	X	X	X	X			D	SU
Sun	GUMBO-SHIELD	Gumbo shale inhibitor stabilizer	X	X	X	X	X	X			SH	LU
Sun	LIQBEADS	Liq. mechanical LU	X	X	X	X	X	X		X	LU	
Sun	LIBRA-GUIDE	Copolymer bead-solid LU	X	X	X	X	X	X	X	X	LU	
Sun	MUL SPERSE	Wetting agent/coupler	X	X	X	X	X	X			SU	E
Sun	R.O.P ENHANCER	Protein-base LU/ROP enhancer	X	X	X	X	X	X			LU	SH FR
Sun	SK-PLUS	Carbon seepage loss agent	X	X	X	X	X	X	X		LO	FR
Sulfia Treat	IRONITE SPONGE	H2S scavenger	X	X	X	X	X	X			CO	
Sulfia Treat	SULFATREAT DFS	H2S scavenger	X	X	X	X	X	X			CO	
TBC-Brin	ANTI-FOAM HD	Defoaming agent	X	X	X	X	X	X			D	
TBC-Brin	BORECLEAN	High molecular weight glycol	X	X	X	X	X	X			SH	WBC
TBC-Brin	BREAKE C	Calcium peroxide	X	X	X	X	X	X			WBC	SU
TBC-Brin	BREAKE C - L	Calcium peroxide suspension	X	X	X	X	X	X			WBC	SU
TBC-Brin	BRIDGECARB-ULTRA	Polymer and sized calcium carbonate blend	X	X	X	X	X	X			LO	FR
TBC-Brin	BRIDGECARB-ULTRA F	Polymer and sized calcium carbonate blend	X	X	X	X	X	X			LO	FR
TBC-Brin	BRIDGESAL-ULTRA	Polymer and sized salt blend	X	X	X	X	X	X			LO	FR
TBC-Brin	BRIDGESAL-ULTRA SF	Polymer and sized salt blend	X	X	X	X	X	X			LO	FR
TBC-Brin	OB	Corrosion inhibitor	X	X	X	X	X	X			CO	
TBC-Brin	CL FREE	Organic amine	X	X	X	X	X	X			SH	HPHT
TBC-Brin	DEFOAM 2	Defoaming agent	X	X	X	X	X	X			D	
TBC-Brin	DEFOAM GREEN	Defoaming agent	X	X	X	X	X	X			D	
TBC-Brin	FL-7 PLUS	Derivatized starch	X	X	X	X	X	X			FR	F
TBC-Brin	FORMATE STABILIZER	Low molecular weight polyglycol	X	X	X	X	X	X			TE	
TBC-Brin	FORMATROL	Derivatized starch	X	X	X	X	X	X			FR	V
TBC-Brin	FORMAVIS ULTRA	Xanthan gum biopolymer	X	X	X	X	X	X			V	
TBC-Brin	FRAC-SAL 1	Borate salt crosslinking suspension	X	X	X	X	X	X			CF	
TBC-Brin	FRAC-SAL 2	Borate salt crosslinking suspension	X	X	X	X	X	X			CF	
TBC-Brin	FRAC-SAL 3	Borate salt crosslinking suspension	X	X	X	X	X	X			CF	
TBC-Brin	FRAC-SAL ULTRA	Borate salt crosslinking suspension	X	X	X	X	X	X			CF	
TBC-Brin	FRAC-SAL WATERBASE	Borate salt crosslinking suspension	X	X	X	X	X	X			CF	
TBC-Brin	GLYSOL	Derivatized starch	X	X	X	X	X	X			FR	V
TBC-Brin	GLYSOL SF 400M	High molecular weight polyethylene glycol	X	X	X	X	X	X			TE	V
TBC-Brin	GLYSOL-DRIL	Xanthan gum biopolymer and CaCO3 blend	X	X	X	X	X	X			FR	V
TBC-Brin	GLYSOL-DRIL SYSTEM	Drill-in fluid, glycol suspension, sized calcium carbonate	X	X	X	X	X	X			RDF	
TBC-Brin	GLYTROL	Derivatized starch	X	X	X	X	X	X			FR	V
TBC-Brin	GLYVIS L	Fumed silicon dioxide	X	X	X	X	X	X			V	
TBC-Brin	HYSCAL C	Blend of polymers, buffers and CaCO3	X	X	X	X	X	X			LO	FR
TBC-Brin	HYSCAL HD	Polymer and sized salt blend for high density brines	X	X	X	X	X	X			LO	FR
TBC-Brin	HYSCAL HT	Blend of polymers, buffers and sodium chloride for high temp. and densities	X	X	X	X	X	X			LO	FR
TBC-Brin	HYSCAL SUPERFINE	Polymer and sized salt blend for high density brines	X	X	X	X	X	X			LO	FR
TBC-Brin	INHIBSAL ULTRA B	Low molecular weight polyglycol	X	X	X	X	X	X			SH	L
TBC-Brin	LUBETEX	Lubricant	X	X	X	X	X	X			L	
TBC-Brin	OSS PILL	Polymer and oil soluble resin blend	X	X	X	X	X	X			LO	FR
TBC-Brin	PBS PLUG 2000	Polymer and inorganic salt blend	X	X	X	X	X	X			MLCM	
TBC-Brin	PBS PLUG 500	Polymer and inorganic salt blend	X	X	X	X	X	X			MLCM	
TBC-Brin	PBS PLUG ACTIVATOR	Inorganic salt blend	X	X	X	X	X	X			MLCM	
TBC-Brin	PBS PLUG RETARDER	Inorganic salt blend	X	X	X	X	X	X			MLCM	
TBC-Brin	PLUG-SAL	Sized sodium chloride	X	X	X	X	X	X			LO	W
TBC-Brin	PLUG-SAL X	Sized sodium chloride	X	X	X	X	X	X			LO	W
TBC-Brin	PLUG-SAL XC	Sized sodium chloride	X	X	X	X	X	X			LO	W
TBC-Brin	POLYTEX AHT	Organic polymer	X	X	X	X	X	X			FR	V
TBC-Brin	SANHEAL PILL	Polymer/carbonate blend	X	X	X	X	X	X			LO	W
TBC-Brin	SLUGGIT	Coarse calcium carbonate	X	X	X	X	X	X			LO	W
TBC-Brin	SLUGGIT CM	Coarse calcium carbonate	X	X	X	X	X	X			LO	W

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HS = Hydrate suppressant
LO = Lost circulation additives
LU = Lubricants
MLCM = Massive lost circulation material
P = Pipe-freeing agents
RDF = Drill-in fluid

Available from:	Product Tradename	Description of material	Recommended for these systems							Product Function				
			Non-dispersed	Dispersed	Calcium-treated	Polymer	Low solids	Saturated salt	Oil-based	Synthetic-based	Air, mist, foam, gas	Primary	Secondary	Secondary
TBC-Brin	SLUGGIT PLUS	Coarse calcium carbonate	X	X	X	X	X	X					LO	W
TBC-Brin	SOLUBRIGE	Oil-soluble bridging agent	X	X	X	X	X	X					LO	W
TBC-Brin	SOLUBRIGE COARSE	Sized oil soluble resin	X	X	X	X	X	X					LO	W
TBC-Brin	SOLUBRIGE FINE	Sized oil soluble resin	X	X	X	X	X	X					LO	W
TBC-Brin	SOLUBRIGE MID	Sized oil soluble resin	X	X	X	X	X	X					LO	FR
TBC-Brin	SOLUVIS	Oil-soluble polymer and organic salt blend	X	X	X	X	X	X					LO	FR
TBC-Brin	THXSAL-ULTRA	Biopolymer derivatized starch blend	X	X	X	X	X	X					FR	V
TBC-Brin	THXSAL-ULTRA SYSTEM	Drill-in fluid, sized sodium chloride	X	X	X	X	X	X					RDF	
TBC-Brin	ULTRA BREAKE M	Magnesium peroxide	X	X	X	X	X	X					WBC	SU
TBC-Brin	ULTRA BREAKE M - L	Magnesium peroxide suspension	X	X	X	X	X	X					WBC	SU
TBC-Brin	ULTRA PF SYSTEM	Drill-in fluid - high temp. sized calcium carbonate	X	X	X	X	X	X					RDF	
TBC-Brin	ULTRACARB 12	Sized CaCO3	X	X	X	X	X	X					LO	W
TBC-Brin	ULTRACARB 2	Sized calcium carbonate	X	X	X	X	X	X					LO	W
TBC-Brin	ULTRACARB 20	Sized calcium carbonate	X	X	X	X	X	X					LO	W
TBC-Brin	ULTRACARB 30	Sized calcium carbonate	X	X	X	X	X	X					LO	W
TBC-Brin	ULTRACARB 5	Sized calcium carbonate	X	X	X	X	X	X					LO	W
TBC-Brin	ULTRACARB SYSTEM	Drill-in fluid, sized calcium carbonate	X	X	X	X	X	X					RDF	
TBC-Brin	ULTRASAL 10	Sized sodium chloride	X	X	X	X	X	X					LO	W
TBC-Brin	ULTRASAL 20	Sized sodium chloride	X	X	X	X	X	X					LO	W
TBC-Brin	ULTRASAL 30	Sized sodium chloride	X	X	X	X	X	X					LO	W
TBC-Brin	ULTRASAL 5	Sized sodium chloride	X	X	X	X	X	X					LO	W
TBC-Brin	VS ULTRA	Xanthan gum biopolymer	X	X	X	X	X	X					V	FR
TBC-Brin	VS ULTRA D	Xanthan gum biopolymer	X	X	X	X	X	X					V	FR
TETRA	ACETIC ACID	pH control	X	X	X	X	X	X					A	
TETRA	ACTIVIS	Liq. HEC, environ. friendly							X				V	FR LO
TETRA	BIOCIDE	Bactericide							X				B	
TETRA	BIOPOL	Select, readily-dispersible biopolymer	X	X	X	X	X	X					V	FR LO
TETRA	BIOPOL L	Liq., dispersible biopolymer	X	X	X	X	X	X					V	FR LO
TETRA	BIORID B-71	Bactericide							X				B	
TETRA	BIORID B-102	Bactericide							X				B	
TETRA	BUFF-10	pH control	X	X	X	X	X	X					A	
TETRA	BUFF-6	pH control	X	X	X	X	X	X					A	
TETRA	CALCIUM FREE BRINE	Calcium-free brine solution							X				W	
TETRA	CAUSTIC POTASH	pH control							X				A	
TETRA	CAUSTIC SODA	pH control							X				A	
TETRA	CHLORIDE FREE BRINE	Chloride-free brine solution							X				W	
TETRA	CITRIC ACID	Citric acid							X				A	
TETRA	CORSAF SF	Thiocyanate free inhibitor							X				CO	
TETRA	CORSAF CR-D	Thiocyanate free inhibitor							X				CO	
TETRA	CORSAF CR-J	Thiocyanate free inhibitor							X				CO	
TETRA	CSOOH SOLUTION	Cesium formate solution							X				W	
TETRA	CS-KOOH SOLUTION	Cesium/potassium formate solution							X				W	
TETRA	CT 200 FR	Friction reducer							X				FR	
TETRA	CT FOAM	Coil tubing agent							X				FO	
TETRA	FERROBAN	Iron Control Agent							X				CO	
TETRA	HYDROCHLORIC ACID</													

