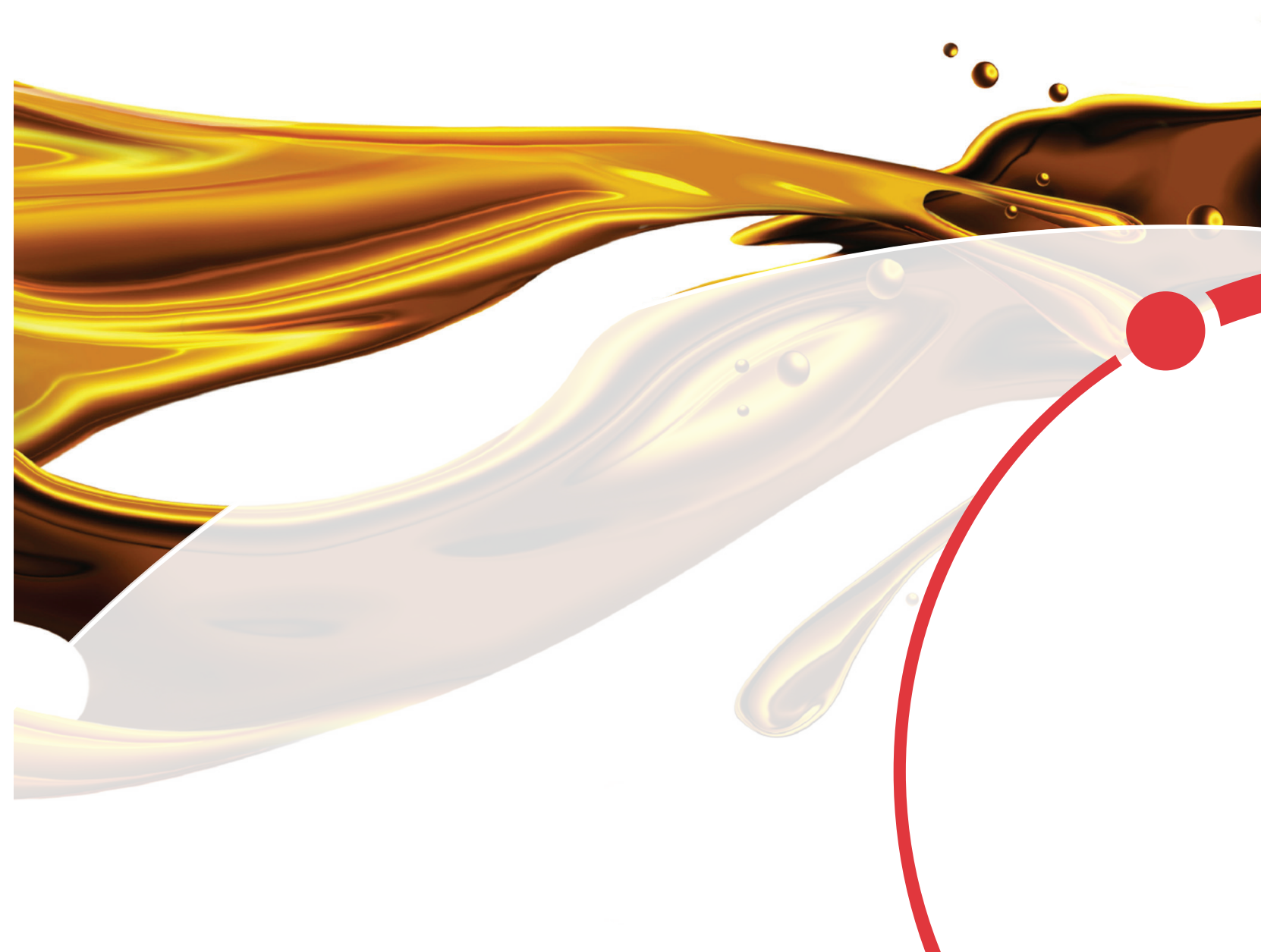




Providing Quality and Service to the Global Oilfield

Stimulation Chemicals



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Acid Corrosion Inhibitors

ACI-130

Mineral acid corrosion inhibitor for use at moderate to high temperatures. Coats metal with a thin film barrier to protect against the destruction by direct acid contact. Used in acid strengths up to 28% hydrochloric acid. Effective to 200°F without the use of an intensifier and to 350°F when used with an intensifier such as BUFFER A.

ACI-130G

Acid corrosion inhibitor for hydrochloric acid based stimulation fluids for temperatures up to 400°F with the aid of an ACI intensifier.

ACI-132

Environmentally friendly acid corrosion inhibitor for hydrochloric acid based stimulation fluids up to 28% HCl. Coats metal surfaces with a thin film barrier to protect against the destruction by direct contact with the acid. Sold in Europe and Middle East.

ACI-136

A high temperature acid corrosion inhibitor. ACI-136 provides corrosion protection in HCl and HCl/HF blends. Sold in the Middle East.

ACI-650

Organic acid inhibitor effective over a wide range of temperatures from 100°F to >400°F. Protects metal against organic acid attack.

Acid Corrosion Inhibitor Intensifiers

ACHINT 300

A solid material designed for enhancing acid corrosion inhibition for temperatures between 200-300°F.

ACHINT 301

Enhances the corrosion protection properties of inorganic and organic acid corrosion inhibitors. Designed for 250°F to 325°F for 15-28% HCl Acid.

ACHINT 302L

Liquid material designed for providing superior acid corrosion inhibition for up to and including 15% HCl for temperatures between 300-400°F.

ACHINT 303L

Highly dispersible liquid material designed for enhancing acid corrosion inhibition for temperatures between 325-400°F. Also effective with corrosion resistant alloys.

ACHINT 304L

Liquid material designed for enhancing acid corrosion inhibition for temperatures between 300-400°F.

Acid Systems

Stim-Vis™ AG

Synthetic polymer gelling agent component of StimVis™ Self-Diverting Acid (SDA) gelled acid system. AG cross-linking occurs as acid spends, causing the polymer to complex.

Stim-Vis™ Breaker

Additive used to help break the crosslink in StimVis™ Self-Diverting Acid (SDA) system. Typically used in a concentration of 4.0 lb/Mgal.

Stim-Vis™ ST

Helps stabilize and maintain crosslink pH in StimVis™ Self-Diverting Acid (SDA) system.

Stim-Vi™ XL

Metal crosslinker used in StimVis™ Self-Diverting Acid (SDA) system.

Stim-Vis™ AG E

Synthetic polymer gelling agent crosslinks as acid spends itself, causing the polymer to complex to help control fluid loss and direct the acid stimulation treatment across the fracture face. Sold in Europe and North Sea.

AEP-Enviro

This non-emulsifier/demulsifier is an environmentally improved, nonionic additive specifically designed to break and prevent emulsions in acidizing and fracturing treatments.

AEP-20N

Nonionic non-emulsifying agent compatible with a wide range of acidizing and fracturing fluids. Formulated to function with acid inhibitors and works effectively in 15% to 28% Hydrochloric Acid.

AEP-20N E

Nonionic non-emulsifying agent compatible with a wide range of acidizing and fracturing fluids. Formulated to function with acid inhibitors. Works effectively in 15% to 28% Hydrochloric Acid. Specifically formulated to meet REACH and North Sea registration requirements.

FEP-32C

A cationic non-emulsifier for water-based treatment fluids that is a water wetter. Also acts as a water soluble corrosion inhibitor, and can be used in fresh water, brine, acid, and guar-based stimulation fluids.

NEO-25

An oil soluble, non-ionic non-emulsifier that has been specifically formulated for use with oil gel systems.

NE-Enviro

A thermally stable, non-emulsifying, environmentally responsible blend of surfactants that offers excellent performance in both fracturing and acidizing well stimulation treatments.

NE-Enviro 100

Non-emulsifier for demulsification of light API° crude oils (API 31.1 and higher API°

oils) where an environmentally improved product is desired.

Surfactants

SG-400N

Nonionic water wetting agent mixture of a water soluble nonionic surfactant and a mutual solvent. Helps prevent formation water blocks, improves water injection rates, and removes oil from solid surfaces.

SG-401N

Surfactant for use in mud clean-out acid and paraffin removal in old wells. Concentrated blend of nonionic surfactants in a mutual solvent base that is equally soluble in water or hydrocarbon solvents.

LST-36

Multi-functional mixture of surfactants reduces surface and interfacial tension and water wets the surface of solids. Improves the penetrating ability of acid and promotes foamy returns in spent acid and aqueous frac fluids.

Rapid Flo-B

A non-emulsifier surfactant product for use in fracturing well stimulation treatments. Rapid Flo-B is designed to improve oil condensate from wells that contain formation waters of salinities > 150K Total Dissolved Solids (TDS).

Rapid Flo-C

An environmentally enhanced, nonionic flowback additive specifically designed to offer superior performance in the recovery of water based frac fluids.

Rapid Flo-20

An environmentally enhanced, nonionic flowback additive specifically designed to offer superior performance in the recovery

of water based frac fluids. Rapid Flo-20 is freeze protected to -20°F.

Rapid Flo-40

An environmentally enhanced, nonionic flowback additive specifically designed to offer superior performance in the recovery of water based frac fluids. Rapid Flo-40 is freeze protected to -40°F.

Gelling Agents for Acid

AF-48

An acid retarder and foamer that produces high viscosity gels for fracture, matrix and foamed acidizing operations. The viscosity decreases as acid spends. Increases the stability of foamed acid or can be used as the foamer itself.

Gelling Agents for Oil

GA-71

Gelling agent component of two-part instant oil gel system for hydrocarbons including kerosene, diesel and most crudes, including those with higher aromatic contents. Desired viscosity is obtained by varying the amounts of the two components depending on the hydrocarbon type.

GA-72

Activator component of two-part instant oil gel system for hydrocarbons. System has higher temperature application than competitive products and is compatible with the use of CO₂.

Gelling Agents for Water

GA-40W

Premium grade guar that is dispersible, can be added on the fly and does not contain an internal enzyme breaker.





Friction Reducers

StimLube® F

An anionic friction reducer is designed for use in water-based fracturing fluids, using fresh water or 2% KCl.

StimLube® M

This unique polymer provides better or equivalent drag reduction, pound for pound, than competitive products. Designed for low to medium salt and/or return frac fluid systems and provides more cost-effective performance.

StimLube® Plus

This environmentally responsible, very slightly cationic friction reducer is designed for use in water-based fracturing fluids, acids, and brines. It is compatible with both nonionic and cationic additives.

StimLube® W

Unique hydrogenated polymer provides better or equivalent drag reduction, pound for pound, than competitive products. Designed for higher salt and/or return frac fluid systems and provides more cost-effective performance.

StimLube® XLT

A medium charge, very high molecular weight anionic friction reducer for addition "on the fly" to fresh water or brines that provides good friction reduction in high brines (API and higher) and remains flowable down to -35 °F.

Iron Control

BetaPro AC

A chelating agent capable of removing iron and barium scales. BetaPro AC chelates Fe+3 (ferric), Fe+2 (ferrous), and Ba+2 up to pH of 9.5.

ICR-200

Ferric iron reducing additive. One part system for <180°F. Note: Strong Odor.

IKA-24

Mixture of chelating agents chelates both Fe³⁺ (ferric) and Fe²⁺ (ferrous) iron in acid solutions. Prevents formation of insoluble iron compounds that reduce permeability and formation of acid sludge caused by precipitated iron compounds.

IKA-40

Iron chelating agent capable of performing in spent acid, even in the presence of high calcium ion concentrations. Chelates both Fe³⁺ (ferric) and Fe²⁺ (ferrous) iron up to a pH of 9.5.

IKA-82

Helps prevent the precipitation of insoluble iron compounds by keeping the iron in a soluble form. Helps to prevent the formation of acid sludge that may be caused by the presence of iron compounds.

IKC-50

Multi-functional chelating agent that chelates both Fe³⁺ (ferric) and Fe²⁺ (ferrous) iron in acid solution. Used in any strength of acid and at temperatures up to 200°F (93.3°C).

IKA-100E

Oxygen scavenger and reducing agent that removes free oxygen from treating fluid to prevent ferrous iron from oxidizing into ferric iron. Also reduces ferric iron in solution to ferrous iron.

Multi-Functional Solvents

MFS-Green

Biodegradable, nontoxic, high flash point blend of solvent and surfactants that does not contain typical petroleum solvents used in treatment and removal of paraffin and asphaltene deposits in the reservoir matrix.

ECO-300

An environmentally enhanced, almost entirely bio-based blend designed for paraffin inhibition that also effectively dissolves a wide array of paraffins and asphaltenes. It does not contain typical petroleum solvents used in treatment and removal of paraffin and asphaltene deposits in the reservoir matrix.

D-Limonene OF

A naturally derived, environmentally conscious multi-functional solvent. D-Limonene OF helps clean friction reducer materials equipment, is useful in oil based mud removal applications, helps disperse paraffin and asphaltenes, and may be used in place of BTEX based solvents.

Non-Emulsifiers

NE-220N

Nonionic non-emulsifying agent for use in all types of well stimulation provides water wetting properties and reduces interfacial tension.

NE-280A

NE-280A is a non-emulsifier/demulsifier for use in both acidizing and fracturing well stimulation treatments, including when saturated CaCl₂ brine is present

Hydrogen Sulfide Scavengers

ACI-500SC

A hydrogen sulfide scavenger is designed to be used in acid stimulation treatments to help prevent detrimental effects of hydrogen sulfide (H₂S) on acid corrosion inhibitors.

Buffers

Buffer A

Allows for a specific pH range of below 4 for low pH crosslinkers.

Buffer CL

Used to raise the pH of fracturing fluids systems to a specific pH range of 9.5 – 11.5.

Buffer F

Used to lower the pH of fracturing fluid systems. A specific pH range of 4-5 can be easily attained and held. Compatible with most stimulation fluid additives such as cationic, anionic and nonionic surfactants, breakers, foamers, and crosslinkers.

Buffer M

Specifically designed to increase the pH of problematic waters without contributing to scaling issues for use with increasing and maintaining fluid pH within a narrow range of 9.0 to 10.0.

Complex Nano-Fluid® Technology

MA-844W

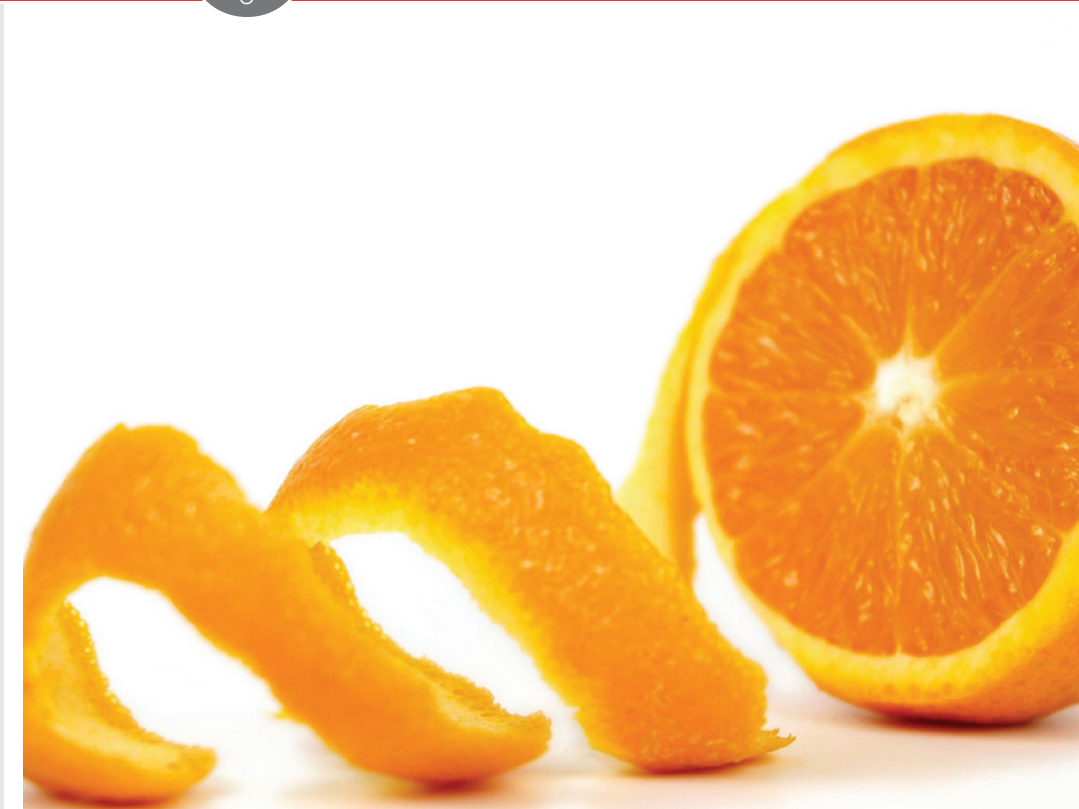
Reduces breakdown pressures and aids flowback of water based frac fluids. Reduces surface and interfacial tension in acid treatments enabling acid to penetrate formation rock deeper, and to decrease surface treating pressure.

MA-845

A more foam compatible version of MA-844W. Lowers breakdown pressures, enhances the cleanup of foam fracturing treatment fluids, aids flowback of water based foam frac fluids, and enhances the penetration and cleanup of acid treatments.

Stim GPHT

A biodegradeable, non-ionic blend for high temperature flowback enhancement in stimulation or acidized fluids in tight gas, shales and coal bed methane. It reduces surface and interfacial tension in acid treatments enabling acid to penetrate formation rock deeper and to decrease surface treating pressure.



StimOil® FBA M

Biodegradable, non-emulsifying blend used in oil well remediation in limestone or sandstone formations. Broad-spectrum demulsifier for acidizing and fracturing fluid systems in a wide range of crude oils.

StimOil® FBA Plus Enviro

Specifically designed to be used in stimulation, remediation, CO₂ water floods and CO₂ gas assisted fracturing. Offers excellent performance for improved frac fluid recovery, decreased surfactant adsorption on shale and sand, and in reducing water-oil emulsions, giving clean break at the interface between oil and water.

StimOil® EC

Biodegradable, non-emulsifying cationic blend for improving oil and gas condensate production. Reduces breakdown pressures and surface tension, aids flowback of water-based frac fluids and reduces formation damage created by phase trapping.

StimOil® EN

Biodegradable, non-emulsifying nonionic blend for improving oil and gas condensate production. Reduces breakdown pressures and surface tension, aids flowback of water-based frac fluids and reduces formation damage created by phase trapping.

StimOil® ENX

An environmentally enhanced formulation designed for oil and gas condensate production. Reduces breakdown pressures and surface tension, aids flowback of water-based frac fluids and reduces formation damage created by phase trapping.

StimOil® FD

Specifically designed to be used in areas which require full disclosure of well treatments (such as California and Australia), this environmentally conscious blend helps improve oil and gas condensate production by reducing breakdown pressures and surface tension, aiding flowback of water-based frac fluids and reducing formation damage created by phase trapping.

Scale Inhibitors

PS-102

Inhibits formation of calcium sulfate, barium sulfate and calcium carbonate scales. Tolerates high concentrations of dissolved solids and calcium, and effective in concentrated brines.

Miscellaneous

AMB-100

Broad-spectrum micro biocide (Dazomet) effective in control of bacteria, fungi, and algae approved for use in petroleum industry in production enhancement, drilling fluids, and secondary recovery operations.



AMB-250

An effective, easy to feed liquid formulation that is extremely effective against acid producing bacteria and SRB's. Contains 25% Glutaraldehyde in a true solution which is readily soluble in water.

SS-800

Acid fines and silt suspending agent released during acidizing operations to improve well clean up after the job.

GST-1

High temperature gel stabilizer for water-based fracturing fluids helps to maintain the viscosity of fracturing gels at temperatures above 200°F.

Anti-Sludge

AS-21A

Mixture of nonionic and anionic surfactants helps prevent formation of acid sludge by forming a chemical barrier between asphaltene particles and acid to retard precipitation of asphaltene particles.

AS-52C

Excellent anti-sludge for use with CESI Chemical's iron reducing agents. Functions well in the presence of high concentrations of soluble iron, other cations present in acid and in a wide variety of crudes.

Gel Breakers for Water

LEB-4

Concentrated liquid enzyme used to break water based gels made from any

guar or guar derivative including HPG and CMHPG. Can significantly reduce proppant pack permeability damage caused by unbroken gel.

DEB

Powdered enzyme used to break water based gels made from any guar or guar derivative including HPG and CMHPG. Enhances clean-up and frac water return and reduces proppant pack permeability damage caused by unbroken gel.

GB-102

High pH stable enzyme breaker for fluids having a pH of 6.0 or higher. Ideally suited for the high pH of borate cross-linked fluids. Effective activity is demonstrated over the range of pH 5.0 to 10.5.

GB-120

Solid, delayed breaker slowly releases an oxidizing agent to provide a 45 min to 2 hour gel break for water based fracturing gels for temperature applications up to 140°F (60°C).

GB-121

Solid, delayed breaker slowly releases an oxidizing agent to provide a 45 minute to 3 hour gel break for water based fracturing gels for temperature applications of 150 to 225°F (66 to 107°C).

Gel Breakers for Oil

GOB-3

Breaker for gelled oil fracturing systems made from diesel, kerosene and crude oil.

Inorganic salt slowly solubilizes in the gelled oil to raise the pH and provide a controlled gel break.

Clay Control

CC-302T

The most active liquid KCl (potassium chloride) substitute product available in the industry. A very effective temporary stabilizer for the smectite, illite and mixed layer clay minerals. Environmentally safe and chloride free.

CC-303T

A highly concentrated, high efficiency, temporary stabilizer for smectite, illite and mixed layer clay minerals encountered in many reservoirs.

CSM-50

Provides long lasting protection against formation damage caused by clay swelling and/or migration, and minimizes chemical handling requirements.

CSM-50E

European available version of CSM-50

NEC-15

Unique combination of non-surface active polyquaternary amine and surfactant designed to provide both clay protection and non-emulsification properties in a single additive package.

NEC-15E

European available version of NEC-15



Crosslinkers

CL-3

Freeze protected liquid borate crosslinker intended for use in any borate gel fluid system where a liquid crosslinker is preferred. Buffered to reduce or eliminate the need for an additional buffer to adjust the pH of the base gel.

CL-141

Easy to use, freeze-protected, non-internally buffered liquid borate crosslinker. Can be metered more precisely than powders, thus maximizing gel performance.

CL-142

Versatile, highly concentrated liquid borate crosslinker may be used without a buffer in low temperature applications. Its lower crosslink pH allows enzyme breakers to break crosslinked gels more completely.

CL-143

An environmentally responsible, delayed borate crosslinker that has a low freeze point.

CL-144

An environmentally conscious, semi-delayed, and non-internally buffered liquid slurry crosslinker for guar.

CL-145

An environmentally conscious, economical, non-internally buffered liquid borate crosslinker, that can be metered more precisely than powders, thus maximizing gel performance.

Emulsifiers

EA-770

Produces an oil-external, acid-internal emulsion (HCL or HCl/HF) in xylene, toluene, kerosene and many other aliphatic or aromatic solvents that breaks as the acid spends and will not re-make.

EA-780

Disperses kerosene, diesel, xylene, toluene, crude and many other aliphatic or aromatic solvents into water based fluids such as acids, fracturing fluids, and brines. The solvent removes the oil coating from scale to allow direct acid contact.

Fluid Loss Control

FLC-500

A blend of natural, high molecular weight polymer fluid loss control additives designed to provide clean up in water based fracturing fluids. Formulated with an internal breaker system to allow complete degradation, even in the absence of external oxidizing breakers.

FLC

Economical fluid loss additive mixture of natural polymers and graded silica for water based fracturing fluids. Also provides fluid and spurt loss control in oil based treating fluids.

Foamers

APF-27

All purpose anionic water-wetting foamer for use in cement, fresh water, and brines for temperatures to 275°F. Can be used in energized fluids as well.

APF-78

A general purpose foamer for fresh water, brines, and any strength hydrochloric acid. Effective even in water contaminated with hydrocarbons.

AMF-80

Amphoteric foaming agent becomes cationic in acid, therefore making it more compatible with acid inhibitors than anionic foaming agents. Boosts performance of acidic non-emulsifiers and helps prevent sludge by lowering surface and interfacial tension of acidic media.

Anti-Foamers & Defoamers

PDF-100

Defoamer for aqueous based fluids applied by batch mixing, spraying or misting.

Stop-Foam

A multi-purpose, non-hazardous, environmentally responsible, liquid defoamer. Stop-Foam is stable in acid, alkaline, or neutral systems.