



**SALES SERVICE & RENTAL**

**EXACT VALVE SOLUTIONS**  
**(866) 407-1161**  
**[info@exactvalvesolutions.com](mailto:info@exactvalvesolutions.com)**

**BLOWOUT PREVENTERS**  
**ANNULARS**  
**FRAC STACKS**  
**ACCUMULATORS**  
**FLOWBACK**  
**CHOKE MANIFOLDS**  
**MIXING PLANTS**  
**CHEMICALS**  
**HYDRAULIC CATWALKS**  
**FIELD GREASING**  
**WELLHEADS**  
**FRAC VALVES**  
**RENTAL EQUIPMENT**





***“OUR COMMITMENT TO OUR CUSTOMER IS TO PROVIDE EQUIPMENT SOLUTIONS BASED ON THEIR EXACT NEEDS AND INSURING THE HIGHEST QUALITY, RELIABILITY AND SAFETY IN THE INDUSTRY.”***

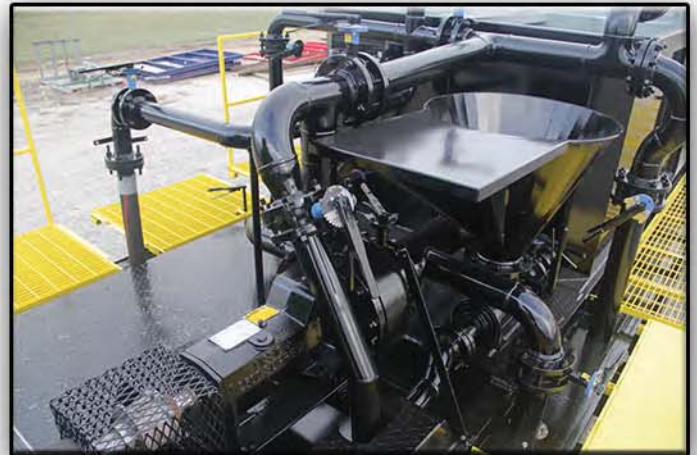
*Exact Valve Solutions greatly appreciates the opportunity to provide our services with strong customer relations, extensive knowledge of the industry, and dependable field support. With over 75 combined years of experience in the oil and gas industry, we proudly stand behind our products and equipment. Our goals which consist of Safety First, caring for our customers and providing quality assurance fall second to none in what we strive to accomplish for all of our preferred customers.*

*Recently, along with our existing services of: Frac Stacks, Flowback Manifolds, BOP stacks, Accumulators, Test and Torque units, Rental Equipment, and Hydraulic Catwalks, we have released our new chemical Mixing Plant. This "self contained unit" has been fabricated on a 40' heavy duty gooseneck trailer. Unlike conventional units that are built on skids and delivered to location with a haul truck, this unit can be transported with a dually vehicle. The unit is powered by a John Deere engine with an excess of 185 hp, this unit will be capable of boosting up to 14 bpm and provide substantial chemical sheering capability. Our large blending tank has a 60 barrel capacity and our small slug tank is of a 30 barrel capacity. In addition, we incorporated a second C-pump for water transferring chores and emergency primary C-pump break downs.*

*Along with our equipment as mentioned before, we provide professional and knowledgable personnel. Fluid Engineers with experience in Coil Tubing, Workover and Drilling Rigs that solve problems in the field to make your consultants job easier.*

*Our list of chemicals for Coil Tubing drill outs is as follows: Friction Reducer, Ultra Lube (pipe on pipe), Beka Lube, Liquid Xanthium, HE-150 (polymer), and Biocide. For all of which we have provided technical data sheets in this email.*

*We at Exact Valve Solutions hope that you, our preferred customer, will find our services to some use in the near future. Once again I would like to extend our gratitude for the opportunity to provide you with our services.*







## ***FR-300***

### **FRICTION REDUCER ADDITIVE**

#### **GENERAL INFORMATION:**

**FR300** is a high molecular weight copolymer. This product is designed to enhance the water displacement in oil wells by considerably reducing the friction pressure experienced at very high flow rates.

#### **PRINCIPLE USES**

**FR300** is useful in various industrial applications such as industrial water and waste water clarification, lubricant in drilling mud and thickening and as a friction reducer additive.

#### **PROPERTIES**

Appearance	Opaque, off white emulsion
Specific Gravity	1.05-1.08
Viscosity	400-1200 cps
Ionic Charge:	Anionic
Freezing Point	<-20°F

#### **FEEDING AND DOSAGE**

Recommended use levels are 0.5-1.0gal/1000gal in water. This product should not be used neat. Use positive displacement pumps (gear or progressive cavity).

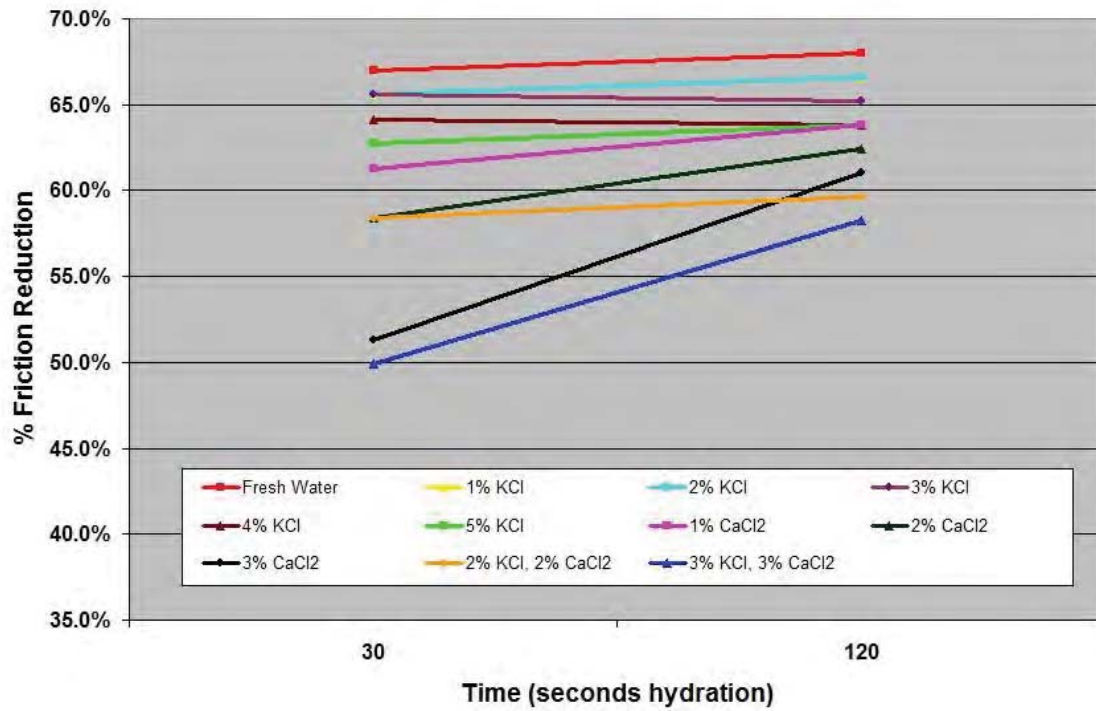
#### **STORAGE**

**FR300** should be stored between 40-90°F and protected from freezing. If freezing occurs the product should be warmed to 40-90°F and mixed well before use.

#### **PACKAGING**

**FR300** is available in 264 gallons totes, 330 gallon totes or 5 gallon pails.

### Econo-FR300 Performance in Fresh Water and Light Brines



This information is provided with the best of our knowledge and belief. It is user's responsibility to satisfy himself as to the suitability of such information for his own particular use. However, no representation, warranty or guarantee is made as to its accuracy, reliability. We do not accept liability for any loss or damage that may occur from the used of this information nor do we offer any warranty against any patent infringement.



## ***FR-400***

### **FRICITION REDUCER ADDITIVE**

#### **GENERAL INFORMATION:**

**FR400** is a high molecular weight copolymer. This product is designed to enhance the water displacement in oil wells by considerably reducing the friction pressure experienced at very high flow rates.

#### **PRINCIPLE USES**

**FR400** is useful in various industrial applications such as industrial water and waste water clarification, lubricant in drilling mud and thickening and as a friction reducer additive.

#### **PROPERTIES**

Appearance	Opaque, off white emulsion
Specific Gravity	1.05-1.08
Viscosity	400-1200 cps
Ionic Charge:	Cationic
Freezing Point	<-20°F

#### **FEEDING AND DOSAGE**

Recommended use levels are 0.5-1.0gal/1000gal in water. This product should not be used neat. Use positive displacement pumps (gear or progressive cavity).

#### **STORAGE**

**FR400** should be stored between 40-90°F and protected from freezing. If freezing occurs the product should be warmed to 40-90°F and mixed well before use.

#### **PACKAGING**

**FR400** is available in 264 gallons totes, 330 gallon totes or 5 gallon pails.



## Xan 4

### LIQUID XANTHAN GUM SLURRY FOR OILFIELD APPLICATIONS

**DESCRIPTION:** **XAN 4** is a Xanthan Gum slurry in an environmentally friendly mineral oil. Fluids formulated with **XAN 4** exhibit rheological properties that are useful in a wide variety of oil & gas well environments. **XAN 4** fluids are very durable under high shear, can tolerate a wide pH range, have a tolerance for electrolytes, and can withstand temperatures up to 300°F. Because **XAN 4** fluids have the ability to develop high viscosity at low shear rates and a low apparent viscosity at high shear rates, it is effective in drilling, workover, completion, spotting, spacer, pigging, and milling fluids.

#### PROPERTIES

Density	8.68 lbs/gal	pH	6.5-8.5
Activity	4.0 lbs/gal	Appearance	Tan Liquid
Brookfield Slurry Viscosity	1500-2500cps		

#### RHEOLOGY, 0.28% IN SEAWATER, FANN-35 DIAL READING

Fann-35 at 600rpm	≥75
Fann-35 at 300rpm	≥55
Fann-35 at 200rpm	≥45
Fann-35 at 100rpm	≥35
Fann-35 at 6rpm	≥18
Fann-35 at 3rpm	≥16

**APPLICATION:** Typically, **XAN 4** is used at a concentration of 5-10 gal/1000 gal for use as a drilling, workover, or completion fluid. At these concentrations, **XAN 4** fluids exhibit rheological properties that allow for suspension of solids under very low shear rates, but lower viscosities at high shear rates for ease of application.



## *MS-Series*

### Micellar Stimulation Additive

**MS-Series** is a micro-emulsion designed and formulated with co-solvents and surfactants to enhance the recovery of stimulation fluids by reducing surface tension and aiding in the clean-up of water based frac fluids and acidizing fluids.

**MS- Series** is a non-ionic fluid that is very versatile and compatible with many of the various stimulation fluids used in the oil and gas industry. This micellar additive was designed to be stable at extreme high temperatures.

**MS- Series** delivers superior water wetting characteristics in both carbonate and sandstone reservoirs. The result is a more efficient stimulation, with residual wetting, that enhances the performance and life of an oil or gas well and its longevity.

**MS- Series** is used as a non-acidic breakdown fluid to enhance stimulation performance at a loading of 15 to 30 gpt.

<b>Specific Gravity:</b>	.92
<b>Appearance/Odor:</b>	Clear/Slight Aromatic
<b>Flash Point:</b>	211
<b>pH:</b>	6-8

**See MSDS**

**MS- Series** is recommended at a loading of 2 to 5 gpt in fracturing fluids and acidizing fluids. It is suggested to always run a compatibility of fluids.

**MS- Series** is available in 55 gallon drums and 264 gallon totes





## ***P.O.P. 90***

**(Pipe on Pipe)**

**Description** – POP 90 is a friction reducing agent designed for metal to metal contact. It has a uniquely high affinity for coating metal surfaces giving superior lubricity while remaining fully miscible in an aqueous environment. POP 90 is environmentally friendly and has a viscosity capable of carrying a proppant if required.

### **Applications:**

- Designed to reduce drag on all metal to metal surfaces
- Useful for coil tubing operations, running production tubing and wireline operations

### **Advantages:**

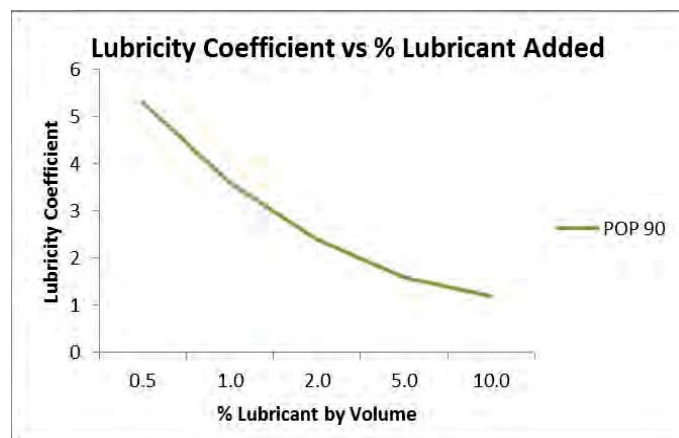
- Superior lubricity
- Proppant carrying capability
- High affinity for metal surfaces
- Environmentally friendly

<b>Lubricity Coefficient</b>	
% Volume in Brine	CoF
0.5	5.3
1.0	3.6
2.0	2.4
5.0	1.6
<b>Film Strength @ 5%bv</b>	
<b>4996</b>	

### **Typical Properties**

- Specific gravity – 1.01
- Appearance/odor – White viscous Liquid/ bland odor
- Pour point - < 20° F
- pH – 6.0-7.0

**POP 90** is recommended for use whenever friction caused by metal to metal contact is anticipated. Recommended application: 0.5% - 5.0% by volume.





## BC-20

### LIQUID, BROAD SPECTRUM BIOCIDES

#### DESCRIPTION

**BC-20** is an effective, low cost, antimicrobial agent for use in oilfield applications such as stimulation and fracturing fluids, drilling muds, workover or completion fluids, water treatment and waterflood applications.

#### ACTIVE INGREDIENT

Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2- thione (Dazomet)	24%
Inert Ingredients:	<u>76%</u>
TOTAL	100%

#### PRODUCT FEATURES

- Effective, low cost, and easy to feed liquid formulation
- Provides longer term kill than conventional oilfield biocides
- Extremely effective against acid producing bacteria
- Broad spectrum of kill (breaks down into several biocidal compounds that prevents isolation of organisms)
- No compatibility issues with oxygen scavengers or friction reducers
- Non-ionic (does not interact with separation aids)
- Non-emulsifying
- Low freezing point for cold weather application (<-4°F)

#### PHYSICAL PROPERTIES

Density	9.7 lbs/gal
Solubility in Water	Complete
Appearance	Yellow to Light Green Liquid
Flash Point	>200°F
pH	13.6

#### PRODUCT APPLICATION

Because of the bacterial contamination, greater or lesser amounts of the **BC-20** may be prescribed. For drilling muds, add 0.2gpt of **BC-20** in a thin stream to the mud pit while the drilling fluid is circulating. As the total volume increases, due to greater well depth, add additional **BC-20** to maintain the proper concentration.

For Stimulation fluids, water treatment, completions fluids or water flood applications, dosages will depend on the type and degree of contamination present. Typical application can range from 0.05gpt to 0.25gpt based on feed regimen(s) and degree of contamination present.

#### PACKAGING

**BC-20** is available in 5-Gallon Pails, 55 Gallon Drums, 275 & 330 Gallon Totes.