

# TURBO-CHEM<sup>®</sup>

## INTERNATIONAL, INC.

The Wellbore Stability Specialists

# Premium-Seal

(Fine & Regular)

Environmentally Safe Wellbore Sealant  
and Fluid Loss Reducing Fiber

## DESCRIPTION

Premium Seal is a deformable and compressible micronized cellulose fiber which is compatible with water and oil based muds and has been specifically designed to seal permeable formations. The optimum Particle Size Distribution (PSD) of the graded fibrous particles creates a bridging action within a fraction of an inch of the borehole and a matting effect within the mud wall cake. This type of sealing action will form a more permanent seal while drilling with less subsequent danger of the bit, stabilizers, or drill pipe scraping off the seal.

## TYPICAL PHYSICAL PROPERTIES:

- Bulk Density Compacted (lb. / ft<sup>3</sup>): PSR (45.2), PSF (58.0)
- Bulk Density Un-Compacted (lb. / ft<sup>3</sup>): PSR (29.9), PSF (36.9)
- Appearance: Tan
- Specific Gravity (g/mL): PSR (1.48), PSF (1.65)
- pH in 1% solution: 6-8

## RECOMMENDED TREATMENT:

System Treatment rates are 4-8 ppb or as dictated by the fluid engineer on location per specific wellbore condition. Recommended treatment rates in sweeps should be b/w 15-30 ppb.

### Premium - Seal Regular Particle Size Distribution

US Mesh Screen Size (micron)	Product Retained, g
18 (1000μ)	17.0
35 (500μ)	30.7
60 (250μ)	23.4
100 (150μ)	14.5
120 (125μ)	4.4
140 (106μ)	3.8
200 (75μ)	4.1
270 (53μ)	1.5
400 (38μ)	0.6

### Premium - Seal Fine Particle Size Distribution

US Mesh Screen Size (Micron)	Product Retained, g
18 (1000μ)	0.9
35 (500μ)	1.2
60 (250μ)	3.9
100 (150μ)	10.5
120 (125μ)	6.7
140 (106μ)	5.9
200 (75μ)	10.8
270 (53μ)	18.7
400 (38μ)	38.8

## DRILLING FLUID ADDITION COMPATIBILITY:

Premium Seal is compatible in all mud types.

## BENEFITS:

- ✓ Premium-Seal improves wall cake quality with phenomenal high temp capabilities.
- ✓ Premium-Seal also reduces differential sticking tendencies in low-pressure sands.
- ✓ Highly efficient at sealing micro-fractured formations while minimizing unstable wellbore situations.
- ✓ Reduces torque and drage while minimizing hole washouts.
- ✓ Improves hole integrity and log interpretation.
- ✓ Mixes easily through the hopper and has minimal losses over shaker screen and solids control equipment.
- ✓ Controls wetting of shales.

Premium Seal Regular is used most effectively in pill applications. A high concentration of 20-40 ppb **Premium Seal Regular**, along with an equal amount of **Premium Seal Fine**, should be thoroughly mixed with the active mud, then swept or spotted across the loss zone. Utilize maximum concentrations while retaining pumpable properties. A large enough pill should be used to cover the thief zone or open hole section.

Available in 25 or 50 lb. sacks.

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