

TURBO-CHEM[®]

INTERNATIONAL, INC.

The Wellbore Stability Specialists

SYN-Seal

Organic, HTHP Filtrate and Seepage Loss Reducing LCM

DESCRIPTION

SYN-Seal is a single sack, chemically modified resin and cellulose fiber compound that contains no asphalt or asphalt derivatives. SYN-Seal is effective at both low and high temperatures and has a broad application in oil and synthetic muds.

TYPICAL PHYSICAL PROPERTIES:

- Bulk Density Compacted (lb. / ft³): 72.8
- Bulk Density Un-Compacted (lb. / ft³): 47.3
- Appearance: Gray Powder
- Specific Gravity (g/mL): 1.56
- pH in 1% solution: 6-8

RECOMMENDED TREATMENT:

System Treatment rates are 6-10 ppb or as dictated by the fluid engineer on location per specific wellbore condition. Recommended treatment rates in sweeps should be b/w 10-30 ppb.

HANDLING:

Available in 25 or 50 lb. sacks.

SYN-Seal
Particle Size Distribution

US Mesh Screen Size (Micron)	Product Retained, g
18 (1000μ)	1.0
35 (500μ)	1.0
60 (250μ)	5.0
100 (150μ)	9.2
120 (125μ)	5.0
140 (106μ)	5.0
200 (75μ)	12.0
270 (53μ)	16
400 (38μ)	45.0

DRILLING FLUID ADDITION COMPATIBILITY:

SYN-Seal is compatible in all mud types.

BENEFITS:

- ✓ SYN-Seal is effective in eliminating seepage loss and/or lost circulation control in oil, invert, and synthetic systems
- ✓ SYN-Seal also reduces differential sticking tendencies in low-pressure sands.
- ✓ Highly efficient at sealing micro-fractured formations while minimizing unstable wellbore situations.
- ✓ A secondary benefit of SYN-Seal treatments is improved emulsion stability.
- ✓ When SYN-Seal is added to the drilling fluid, the rheological properties in synthetic based drilling fluids will remain stable..
- ✓ Mixes easily through the hopper and has minimal losses over shaker screen and solids control equipment.
- ✓ Reduces stuck pipe tendencies in low pressure sands.

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For more information
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