## N-SEAL™

#### **Lost Circulation Material**

#### **Product Data Sheet**

Product Description

N-SEAL<sup>TM</sup> lost circulation material is a specially formulated acid soluble extrusion spun mineral fiber, and is compatible with all oil and water-based mud systems. Nodules are formed into loosely connected groups so that when they are immersed in drilling fluids and subjected to agitation the nodules separate into individual fibers. Due to its solubility in weak acids, N-SEAL lost circulation material is easily removed in production reservoirs. N-SEAL lost circulation material can be used in concentrations of up to 30 lb/bbl (85.6 kg/m³) in slug treatments or as additive to the entire fluid system.

# Applications / Functions

- N-SEAL lost circulation material can be used in concentrations of up to 30 lb/bbl (85.6 kg/m³) in slug treatments or as additive to entire system.
- Seepage control
- Bridging
- Plugging voids
- Fractures
- Work over operations
- Oil muds
- · Water muds
- Completion fluids
- Cement additives

## **Advantages**

- Acid soluble
- Easily-wetted
- Non-combustible
- Non-fermenting
- Inorganic
- Non-polluting
- Non-corrosive
- Non-toxic
- Temperature stable
- · Contains no asbestos

## Typical Properties

- Appearance
- Specific gravity

Gray white fiber

2.6

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Because the conditions of use of this product are beyond the seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own test to determine the suitability for purchaser's application. Purchaser assumes all risk of use and handling of this product. This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate. No guarantee of their accuracy is made, however.

#### Recommended Treatment

- 1. N-SEAL lost circulation material can be added directly through the hopper.
- 2. For normal treatment, add 5-8 lb/bbl (14.3-22.8 kg/m³) of N-SEAL lost circulation material.
- 3. As a pill, add 15-30 lb/bbl (42.8-85.6 kg/m³) of N-SEAL lost circulation material.
- 4. N-SEAL lost circulation material is 98% acid soluble in 7.5% HCl or a blend of HCl and acetic acid.

**Packaging** 

N-SEAL lost circulation material is packaged in 30-lb (13.6-kg) sacks.

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