

TURBO-CHEM[®]

INTERNATIONAL, INC.

The Wellbore Stability Specialists

First Response

Single Sack Mud Loss Eliminator

DESCRIPTION

TCI's First Response is a single sack, precise blend of cellulose fiber and sized particulate. First Response is an effective treatment for seepage loss and/or lost circulation control in all Water and Oil/Synthetic Based drilling fluid systems. First Response, developed by TCI's Research and Development team, addresses the operator's need of using a single sack, easy to mix product to solve partial to massive losses.

TYPICAL PHYSICAL PROPERTIES:

- Bulk Density Compacted (lb. / ft³): 40.0
- Bulk Density Un-Compacted (lb. / ft³): 23.6
- Appearance: Off White/Gray Powder
- Specific Gravity (g/mL): 1.75
- pH in 1% solution: 11.5-12.8

RECOMMENDED TREATMENT:

Treatment rates (for sweeps 5-15 ppb) / (15-70 ppb for pills) or as dictated by the fluid engineer on location per specific wellbore condition.

HANDLING:

Available in 25 or 50 lb. sacks.

First Response
Particle Size Distribution

US Mesh Screen Size (Micron)	Product Retained, g
6 (3400μ)	5.0
8 (2360μ)	6.0
10 (2000μ)	4.0
14 (1400μ)	9.0
18 (1000μ)	9.0
35 (500μ)	15.0
60 (250μ)	12.0
100 (150μ)	38.0
120(125μ)	2.0

DRILLING FLUID ADDITION COMPATIBILITY:

First Response can be mixed in all drilling fluid types.

BENEFITS:

- ✓ First Response is a broad particle size range, single sack blend which provides savings in transportation and rig space.
- ✓ First Response is easily mixed directly to the active system drilling fluid as a sweep or pill application. Can also be added as a pre-treatment for anticipated loss zones.
- ✓ First Response can be pumped through down hole tools up to 70 ppb. First Response is highly effective when staged or pumped ahead of EZ Squeeze and/or Cement.
- ✓ The optimal particle size blend seals multi-sized fractures and reduces effective response time to whole mud losses.
- ✓ Maximum effect when blended with SYN-Seal and/or Bore-Seal 100 as a sweep or pill application.
- ✓ Mixes easily through the hopper.

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