

Product Summary

Single sack precise blend of premium cellulose fiber and sized particulate. First Response is an effective treatment for all losses from seepage to severe. First Response was developed by Turbo-Chem's R&D Laboratory to address the operators need of solving a wide range of lost circulation issues with a one sack material.

Physical Properties:

Appearance: White/Gray Powder
 Specific Gravity (g/mL): Premium Seal Reg (1.75)
 Bulk Density Un-Compacted (lb./ft³): 23.6
 Compacted (lb./ft³): 40.0

Recommended Treatment

- System Treatment: 2-6 ppb
- Sweeps: First Response (5-25 ppb) along with SYN-Seal (5-10 ppb)
- Pill: First Response (15-70 ppb) can be run alone or with SYN-Seal (10-30 ppb) to maximize effectiveness in zones where there are whole mud losses.

First Response PSD

U.S. Mesh Screen (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

Wellbore Stability Benefits:

- First Response is a carefully selected broad particle size range LCM proven to seal multi-sized fractures and reduce effective response time to whole mud losses.
- Can be pumped through down hole tools up to 75 ppb.
- Proven to be highly effective when staged or pumped ahead of EZ Squeeze or cement.
- Effective at both low and high wellbore temperatures.
- Easily mixed through the hopper.
- Compatible mixing in all drilling fluids.
- Maximum effect in sweeps/pills when used with SYN-Seal or Bore-Seal 100.

Handling and Storage

Proper PPE should be worn while handling this product. Minimize dust exposure. Please review SDS before using.

Packaging

First Response is available in 25 lb. sacks, 50 sacks/pallet.