

### Description

INSH 7000™ is a finely graded fibrous material which helps in avoiding fluid invasion, increasing well bore strength and avoiding pore pressure transmission. The low permeability seal created by the product limits transmission of destabilizing wellbore pressure into the formation. This barrier or 'shield' minimizes formation damage and prevents fractures from propagating. It is a fine graded naturally occurring cellulosic material which has been further modified by grafting so as to make it non invasive. When added at a dose of 2% on the drilling fluid, it can seal heterogeneous permeable formations.

### Application

The fibrous material of structured particle size prevents fractures from propagating - (seals up to 250 µm fractures), creating a seal to effectively minimize fluid invasion into micro-fractures, thus stabilizing weak shale and effectively reducing down-hole troubles and formation damage.

### Advantages

- Versatile product and can be applied with any water-based muds
- Imparts marginal increase in viscosity
- The low permeability cake can be easily removed by wash fluids
- Imparts well bore stability
- Helps Reducing formation damage

### Recommended Treatment

Normal concentrations used: 4-10 lb./bbl.

### Specifications

S.No.	Parameter	Specification
1	Physical State	Free flowing powder, free from visible impurities
2	Moisture content at 105±2°C, percent by mass	10 (Maximum)
3	pH of 5% (w/v) suspension in deionized / distilled water	7.0 ± 1.0
4	Invasion test (of hot rolled (100°C for 16 hrs. ) base mud in sand bed test cell at 500 psi for 10 minutes, cm)	Observe for 10 minutes
5	Invasion test (of hot rolled (100°C for 16 hrs. ) treated (2% (w/v) INSH 7000™ additive) in base mud in sand bed test cell at 500 psi for 10 minutes, cm)	5 (Maximum)
6	Bulk Density (gm/CC)	0.4-0.5

### Packaging

25 Kgs pre ply kraft paper bag. Customized packaging is available on request.