



PROCOR CHEMICALS, INC.



Technical Data Sheet PRO I Drilling Mud Squeeze Additive

DESCRIPTION

PRO-I is a highly active solid acid additive for use as an inhibitor for controlling the reaction time of PRO-HG. **PRO-I** is easily mixed with conventional rig equipment and works in concert with PRO-HG in controlling mixing and pumping times. **PRO-I** is designed to be used in water and brine based drilling fluids.

TYPICAL PROPERTIES

| | |
|---|-----------------------------|
| Appearance | Off white powder or crystal |
| Typical Particle Diameter (in microns) | 5-250m |
| pH (2% Aqueous Solution) | Less than 2 |
| | |

ADDITION TO PRO-HG FOR DEWATERING

| | Observation of the swelling polymer in 6 lb/bbl Sulfamic Acid | Observation of the swelling polymer in tap water |
|---------------|---|--|
| Initial | | |
| 5 minute set | 0.44 pH and no swelling | 7 pH and no swelling |
| 23 minute set | 0.91 pH and slow swelling | 7 pH and completely swelled |
| 1 hour set | 3.34 pH and almost completely swelled | Completely swelled |
| | 3.70 pH and completely swelled | Completely swelled |

APPLICATIONS

- The primary application of PRO-I is to inhibit or slow the swelling of PRO-HG during mixing and pumping without completely stopping the reaction when it reaches a positive PH environment.
- Increased working time of two to three hours versus instant reaction in environments with a PH above 7

TYPICAL USE RATES

- Normal use quantities are 4 - 8 pounds per barrel.

PACKAGING

PRO I is offered in 50lb sx/ 44 sxs per pallet.