

# VIS-STAR FP



VIS-STAR FP is a readily dispersible, ultra-high molecular weight anionic polymer designed to provide cuttings encapsulation, fluid loss control and clay/shale stabilization. VIS-STAR FP acts as a viscosifier, reduces friction and flocculates fines in the fluid. It can be added to the system or directly to the borehole. VIS-STAR FP can be used in drilling and in trenching.

## Application

VIS-STAR FP will increase the viscosity and enhance the overall ability of drilling fluids. Improving fluid loss, clay/shale stabilization, and cuttings encapsulation and removal. VIS-STAR FP, in low doses, can be used to extend bentonite based fluids, further increasing the base fluid properties. VIS-STAR FP will bind together unconsolidated formations increasing well-bore stability. It will also flocculate fines, allowing them to settle and help maintain a clean fluid.

## Advantages

- Can be mixed in the borehole or into the excavation
- Clay and shale stabilizer (encapsulator)
- Enhances the removal of drill solids, clean fluid
- Non-gelling, allowing for the settlement of fine
- Reduces skin friction (Lubrication)
- Improves fluid loss and bore stability

## Typical Usages

| Typical Amounts of VIS-STAR FP Added to freshwater |              |                   |                  |
|--|--------------|-------------------|------------------|
| Drilling Application                               | lbs/1000 gal | kg/m <sup>3</sup> | Funnel Viscosity |
| Clay & Shale                                       | 3.5-5.0      | 0.5-0.6           | 35-50            |
| Silt & Fine to Medium Sand                         | 5.0-7.0      | 0.6-0.8           | 50-70            |
| Coarse Sand to Gravel                              | 7.0-9.0      | 0.8-1.0           | 60-70            |
| Gravel to Cobbles                                  | 9.0-12.5     | 1.0-1.5           | 80-125           |

## Typical Properties

|                     |                        |
|---------------------|------------------------|
| Physical Appearance | Granular solid (White) |
| Specific Gravity    | 1.25 - 1.40            |
| pH                  | 6.0-8.0                |
| Ionic Character     | Anionic                |
| Solubility          | Soluble                |
| Charge density      | Medium                 |

## Packaging

VIS-STAR FP is packaged in 55 lbs (25 kg) bags