



AF 247RD

LMW READILY DISPERSIBLE ANIONIC SHALE INHIBITOR

DESCRIPTION

HYPERDRILL® AF 247RD is a low molecular weight, anionic polyacrylamide supplied as a dry granular powder. When added to water-based drilling fluids, this specially processed polymer disperses rapidly allowing hydration to occur without the formation of lumps or “fish eyes”.

Due to its lower molecular weight, **HYPERDRILL® AF 247RD** will have considerably less effect on the rheology of a fluid, i.e. viscosity, while still affording excellent shale inhibition. Dosage rates of up to 2-3 ppb are attainable.

TYPICAL PROPERTIES

Appearance:	White Granular Powder
Ionic Character:	Anionic
Bulk Density:	0.7 gr/cc (45 lbs./cu. ft.)
pH of 0.5% Soln. @ 25°C:	6.0 - 8.0

APPLICATIONS

HYPERDRILL® AF 247RD is a very versatile polymer which can be used for oil, gas, water well and mineral drilling. It can be added to fresh, KCL or sea water based drilling fluid systems. **HYPERDRILL® AF 247RD** functions primarily as a:

- **SHALE INHIBITOR**
- **FRICTION REDUCER/LUBRICANT**

PRINCIPAL FUNCTIONS

Shale Inhibitor

HYPERDRILL® AF 247RD can be used alone or in conjunction with KCL to stabilize active shales by decreasing the shale's tendency to absorb water, swell and slough-off. As an additional benefit, fluid loss is often reduced when using this product. Normal dosage rates are between 1.0 - 3.0 ppb as supplied.

Friction Reducer

The addition of **HYPERDRILL® AF 247RD** into a drilling fluid will help reduce turbulent flow, friction and power losses at points of high shear. Lowering turbulent flow also helps reduce erosion and washouts of fragile geologic structures.

PACKAGING

HYPERDRILL® AF 247RD is supplied in 50 lb. or 25 Kg., multi-walled, polyethylene-lined, paper bags, packed 30 to a shrink-wrapped pallet.

STORAGE

HYPERDRILL® AF 247RD should be stored inside under cool dry conditions. When stored under these conditions, the product has a shelf life of at least one year.

HEALTH AND SAFETY

HYPERDRILL® AF 247RD exhibits a low order of toxicity. However, precautions should be taken to avoid inhalation, ingestion or contact with skin or eyes. For additional information, see the relevant MSDS.

SPILLS: Polymer spills are extremely slippery and therefore hazardous. They should be addressed immediately.

Dry polymer spills should be left dry, swept up and disposed of according to local, state or federal regulations. If the polymer becomes wet, an absorbent material should be applied to the spill, then swept up and discarded. **Do not add water to a spill.**

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