



AF 204RD

READILY DISPERSIBLE ANIONIC FLOCCULANT

DESCRIPTION

HYPERDRILL® AF 204RD is a high molecular weight, medium charge, 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”.

TYPICAL PROPERTIES

Appearance:	White Granular Powder
Ionic Character:	Anionic
Bulk Density:	0.8 gr/cc (50 lbs./cu. ft.)
pH of 0.5% Soln. @ 25°C:	6.0 - 8.0

APPLICATIONS

HYPERDRILL® AF 204RD is primarily recommended for use as a total flocculant in clear water and low solids drilling. It is very effective in removing most solids from drilling fluids.

PRINCIPAL FUNCTIONS

Clear Water Drilling

A 0.5% solution of **HYPERDRILL® AF 204RD** should be prepared prior to its addition to the system. This equates to approximately one liter of **HYPERDRILL® AF 204RD** in 200 liters of water.

At normal drilling rates, 200 liters should be sufficient to last 3-4 hours.

For this application, the polymer solution should be added continuously at the flow line while circulating the reserve pit.

It is very important that the polymer solution is added at a point of turbulence to insure proper mixing of the flocculant with the drilled solids.

Low Solids Drilling

HYPERDRILL® AF 204RD is very effective in removing all solids from drilling fluids, thereby lowering the mud weight. This allows for better rheology control and increased penetration rates with less bit wear.

For this application, the 0.5% polymer solution is best added ahead of the shale shaker. The solution can be added continuously or intermittently, in order to control native solids and/or bentonite content.

PACKAGING

HYPERDRILL® AF 204RD is supplied in 55 lb., multi-walled, polyethylene-lined, paper bags, packed 30 to a shrink-wrapped pallet and in 1650 lb. bulk bags.

STORAGE

HYPERDRILL® AF 204RD 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 204RD 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.**