



## Product Information

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### Hyperdrill AF 204RD

#### GENERAL DESCRIPTION

Hyperdrill AF 204RD is a high 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".

#### FEATURES AND BENEFITS

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.

*Clear Water Drilling* - A 0.5% solution should be prepared prior to its addition to the system. This equates to approximately one liter in 200L of water. At normal drilling rates, 200L should be sufficient to last 3-4hrs. 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* - 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.

#### RECOMMENDED TREATMENT

The addition of a very small amount of Hyperdrill AF 204RD can have a pronounced effect on the rheology of a drilling fluid.

Dosage rates will vary from 1.5-3kg/m<sup>3</sup> depending upon the solids loading.

#### TYPICAL PHYSICAL PROPERTIES

Appearance	White granular powder
Ionic Character	Anionic
Bulk Density	0.7 g/cc
pH 0.5% Soln. @ 25°C	6.0 - 8.0

#### HANDLING

Hyperdrill AF 204RD should be stored inside under cool dry conditions and the product has a shelf life of at least one-year.

It exhibits a low order of toxicity. However, precautions should be taken to avoid inhalation, ingestion or contact with skin or eyes. Polymer spills are extremely slippery and therefore hazardous. For additional information, see the relevant MSDS.

#### AVAILABILITY

Hyperdrill AF 204RD is available in 18.93L pails from HiTech Fluid Systems Ltd.