

# ANCO DRILL N

*Solutions Through Technology.....*

*Environmentally Friendly Chemicals*

## Product Description

ANCO DRILL N is a low viscosity, liquid emulsion of a high molecular weight Partially Hydrolyzed Polyacrylamide (PHPA) in an organic carrier. Because of its nonionic nature, ANCO DRILL N is highly functional in fresh water and in the presence of dissolved salts.

## Typical Application

ANCO DRILL N is applicable for use in water based drilling fluids, as a viscosifier, shale stabilizer, encapsulating agent and flocculant. This product is functional in fresh water, seawater, KCl brine, and salt (NaCl) water based drilling fluids. ANCO DRILL N is effective in both low and high pH drilling fluid systems.

## Product Advantages

- A versatile multi-functional additive for most water-based drilling fluids.
- Easily handled and mixed, disperses rapidly into the drilling fluid.
- Pourable in cold weather climates at temperatures as low as -25°F.
- Produces sheer thinning fluid properties, and excellent hole cleaning characteristics.

## Recommended Treatment

For shale stability and encapsulation, a concentration of 1.0 to 4.0 qt/bbl (0.6 - 2.4l/m<sup>3</sup>) of ANCO DRILL N is normally required. ANCO DRILL N may be added directly to the surface of a well agitated mixing or suction pit. Additions through the chemical hopper may cause foaming or aeration of the mud.

When using ANCO DRILL N as a solids flocculant, treatment requirements should be pilot tested, but will generally be less than 0.3 qt/bbl. As a flocculant, the product should be added as a water solution, into the flowline, upstream end of the reserve or settling pit, or to the centrifuge diluent water.

## Handling

Employees should utilize normal precautions when handling chemical products. The use of a face shield or chemical goggles, chemical gloves and apron are recommended when handling this product. In case of eye contact, flush with clean, fresh water for 15 minutes and seek medical advice. In case of skin contact, remove contaminated clothing and launder before re-use, and wash the affected area with soap and water. Review the Material Safety Data Sheet (MSDS) for this product prior to use.

## Storage

Storage in closed containers, at ambient temperatures, in a ventilated area, protected from precipitation. Long term outside storage should be avoided to prevent deterioration of package and labeling.

## Packaging

ANCO DRILL N is supplied in 55 gallon non-returnable steel drums and in 5 gallon plastic pails.

## Typical Chemical and Physical Properties

Specific Gravity g/cm <sup>3</sup> . . . . .	1.03
Flash Point, °F . . . . .	>200
Solubility . . . . .	Soluble - limited by viscosity
Appearance . . . . .	White or off-white liquid
Color . . . . .	White to off-white
Odor . . . . .	Slight mild odor
pH . . . . .	6.5 - 7.5
Boiling Point, °F . . . . .	550