



# BAROID BARAFOS<sup>®</sup>

Thinner and Dispersant



**Description** BARAFOS<sup>®</sup> non-glassy, modified polyphosphate is used as a thinner and dispersant in water-based drilling fluids and as an aid in water well development.

**Applications/Functions** *The use of BARAFOS dispersant assists or promotes the following:*

- Disperse clay and sediment for removal during well development
- Disperse reactive clays that cause mud rings and bit balling
- Thin the drilling mud and allow cuttings to settle out

**Advantages**

- Dissolves and will not re-crystallize in cold water
- Lower pH than commonly available glassy polyphosphates
- Inorganic compound

**Typical Properties**

Appearance	White crystalline
Specific gravity	1.5
pH (2% solution)	7.4

**Recommended Treatment**

*To aid in water well development:*

- Determine volume of water in screen area and double the calculated volume to account for water in gravel pack and formation interface.
- Completely dissolve 10 - 20 pounds BARAFOS dispersant into 100 gallons water (12 - 24 kilograms per cubic meter). Jet and surge this solution through the screen and gravel pack during well development. Repeat as necessary.

***DO NOT add dry BARAFOS directly into the screen or gravel pack***

*To thin the drilling mud:*

- Add 0.5 - 1 pound BARAFOS dispersant per 100 gallons of drilling fluid (0.6 - 1.2 kg/m<sup>3</sup>) slowly at the flow line. For best results, dissolve BARAFOS dispersant in a small quantity of water before adding.
- Product addition becomes less effective if mud weight exceeds 10 lb/gal (1.2 g/cm<sup>3</sup>).