



# BARAFOS®

## Thinner and Dispersant

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

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- Applications/Functions**
- Can disperse the clay particles and sediments so they can be removed during well development
  - Can thin the mud and allow cuttings to settle out
  - Can disperse reactive clays, which cause problems such as mud rings and bit balling
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- Advantages**
- Dissolves and will not re-crystallize in cold water
  - Lower pH than commonly available glassy polyphosphates
  - Inorganic compound
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<b>Typical Properties</b>	Appearance	White crystalline
	Specific gravity	1.5
	pH (2% solution)	7.4

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**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 per 100 gallons water or 12-24 kilograms per cubic meter of water. Jet and surge this solution through the screen and gravel pack during well development. Repeat as necessary.

**Note:** *Do not add dry BARAFOS dispersant directly into the screen or gravel pack*

*To thin the drilling mud:*

- 0.5-1 pound BARAFOS dispersant per 100 gallons of drilling fluid  
Add (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>).
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**Packaging** BARAFOS dispersant is packaged in 50-lb (22.7-kg) multiwall paper bags.

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**Availability** BARAFOS dispersant can be purchased through any Baroid Industrial Drilling Products Retailer. To locate the Baroid IDP retailer nearest you contact the Customer Service Department in Houston or your area IDP Sales Representative.

**Baroid Industrial Drilling Products  
Product Service Line, Halliburton**  
3000 N. Sam Houston Pkwy. E.  
Houston, TX 77032

**Customer Service** (800) 735-6075 Toll Free (281) 871-4612

**Technical Service** (877) 379-7412 Toll Free (281) 871-4613

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