



IDP-444

Dispersant/Thinner

Description IDP- 444, beaded polymeric dispersant, provides efficient sediment and mud removal from producing formations and gravel pack. IDP-444 is also a highly effective mud thinner. IDP-444, polymeric dispersant, contains no phosphates.

Applications/Functions

- Disperses mud, sediment, and clay from the producing formation and gravel pack in the screened interval.
- Reduces viscosity and gel strength of drilling fluids.

Advantages

- Reduces development time
- Reduces pumping cost
- Increases well yield and capacity

Typical Properties

• Appearance	• White Microbead
• Ionic Character	• Anionic
• pH of 1% aqueous solution @ 25°C	• 6.5-7.5
• Solubility	• Readily soluble in water
• Bulk Density	• 0.8 g/cm ³

Recommended Treatment

As a Well Development Aid

- Determine volume of water in screen area and double the calculated volume to account for water in gravel pack and formation interface or determine the static volume of water and add 50% excess.
- Once the water volume is determined, calculate the required treatment volume of IDP-444 by the following formula:

$$\text{IDP-444 (lb)} = .011 \times \text{Water Volume (gal)}$$

This equates to 5.5 lb of IDP-444 per 500 gallons of water.

- Mix thoroughly before introducing into well.
 - The preferable application method utilizes a tremie line with the product applied into the screened area.
 - If necessary, the IDP-444/water solution may be poured into the well.
 - Mixture should be thoroughly blended in well, then agitated using a surge and swab, jetting, or other development technique repeatedly every two hours for a period of up to 24 hours.
 - Pump to waste until turbidity clears up and then connect well to distribution system.
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**Recommended
Treatment
(continued)**

As a Mud Thinner/Dispersant (Water Well Applications)

- Start by adding 0.5 lb of IDP-444 to 500 gallons of mud. Increase concentration until the desired viscosity is achieved. Concentration should be increased to a maximum of 1.0 lb to 500 gallons of mud.

Horizontal Directional Drilling (H.D.D.)

- Add 0.25 to 0.75 lb of IDP-444 per 500 gallons of bentonite-based or polymer-based drilling fluid to facilitate dispersion of aggressive clay and shale.

Packaging

IDP-444 is packaged in 10-lb (4.54-kg) plastic containers with re-sealable flip top lids.

Availability

IDP-444 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

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

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