

# **AQUA-CLEAR® PFD**

**Phosphate-Free Dispersant** 

Description	AQUA-CLEAR® PFD concentrated liquid polymer dispersant provides superior mud and sediment removal from the producing formation and gravel pack. This product is also a highly effective mud thinner. AQUA-CLEAR PFD dispersant contains no phosphates.			
Applications/Functions	<ul> <li>Can disperse mud, sediment and clay from the producing formation and gravel pack in the screened interval.</li> <li>Can reduce viscosity and gel strength of drilling fluids</li> </ul>			
Advantages	<ul> <li>NSF/ANSI Standard 60 certified</li> <li>Helps reduce development time</li> <li>Helps increase well yield and capacity</li> <li>Safe to use on most plastics, rubber and metals</li> <li>Non-fermenting</li> <li>Helps reduce pumping costs</li> </ul>			
Typical Properties	<ul><li> Appearance</li><li> Specific gravity</li><li> pH (neat)</li></ul>	straw colored liquid 1.2 to 1.4 6.5 to 7.5		
Recommended Treatment	•			
	This equates to one gallon of AQUA-CLEAR PFD dispersant for every gallons of water (0.2% by volume) or 2.0 liters of AQUA-CLEAR PFD dispersant for every cubic meter of water.			
	<ul> <li>Mix thoroughly before introducing into well.</li> <li>The preferable application method utilizes a tremie line with the product applied into the screened area.</li> <li>If necessary, the AQUA-CLEAR PFD water solution may be poured into the well.</li> </ul>			
	Mixture should be thore	oughly blended in well, then agitated using a surge		

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## Recommended

### Treatment

and swab, jetting, or other developmental technique repeatedly every two hours for a period of up to 24 hours.

### (continued)

• Pump to waste until turbidity clears up and then connect well to distribution system.

#### As a Mud Thinner

• Start by adding one pint of AQUA-CLEAR PFD dispersant to 500 gallons of mud. Increase concentration until desired viscosity is achieved.

Well Capacity Chart (Gallons per Foot)					
Well Diameter (Inches)	Well Capacity in Gallons/ft	Well Diameter (Inches)	Well Capacity in Gallons/ft	Well Diameter (Inches)	Well Capacity in Gallons/ft
2	0.2	12	5.9	24	23.5
4	0.7	14	8.0	26	27.6
6	1.5	18	13.2	30	36.7
8	2.6	20	16.3	36	52.9
10	4.1	22	19.7	48	94.0

Well Capacity Chart (Liters per Meter)					
Well Diameter (millimeters)	Well Capacity Liters/meter	Well Diameter (millimeters)	Well Capacity Liters/meter	Well Diameter (millimeters)	Well Capacity Liters/meter
51	2.0	305	73.0	610	292.0
102	8.1	356	99.3	660	342.6
152	18.3	457	164.2	762	456.1
203	32.4	508	202.7	914	656.8
254	50.7	559	245.3	1219	1167.7

Note: The volumes in these tables show only the volume of water in a 1 foot or 1 meter section of a given size of screen. Excess volume must be included to account for water present in the formation interface and gravel pack.

PackagingAQUA-CLEAR PFD dispersant is packaged in a 5-gal (19-liters) plastic<br/>pail or 1-gal (3.8-liter) plastic container.

Availability AQUA-CLEAR PFD 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			