

DIAMOND SEAL[®]

Absorbent Polymer for Lost Circulation

Description	DIAMOND SEAL is a water-swellable but not water-soluble, 100% crystalline synthetic polymer. DIAMOND SEAL absorbs hundreds of times its own weight in water. It is intended for use primarily as a lost circulation material for horizontal directional drilling.		
Applications/Functions	 Lost circulation material for horizontal directional drilling Prevent inadvertent returns in river crossing applications Stabilize borehole in cobble and gravel Stabilize unconsolidated formations 		
Advantages	 Rapid water absorption Effective in mitigating lost circulation Economical – small quantity yields large volume Easy to use Non-fermenting 		
Typical Properties	Appearance	off-white free-flowing crystals	
	Specific gravity	0.75	
	Dry screen analysis	96% through 5 mesh (4.0 mm)	
	Swelling capacity in fresh water	3.5 ft ³ /lb (0.22 m ³ /kg)	
Recommended Treatment	 For slug treatment: Add 1/2 to 1 pound (0.25-0.5 kg) DIAMOND SEAL per joint As a pill: 		
	 Add DIAMOND SEAL at 10 - 20 lb/100 gallons of drilling fluid 		
	 Add DIAMOND SEAL at 12 - 24 kg/m³ of drilling fluid 		
	Treatment for Loss of Circulation or Inadvertent Returns in HDD Operations:(Prior to pumping remove all in-line screens in circulating system)Add the following to existing drilling fluid and displace:BAROLIFT®-0.25 - 0.5 lb/100 gallons (0.3 - 0.6 kg/m³)N-SEAL TM -3 - 5 lb/100 gallons (3.6 - 6.0 kg/m³)DIAMOND SEAL-10 - 20 lb/100 gallons (12 - 24 kg/m³)		

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Packaging	DIAMOND SEAL® is packaged in 10-lb (4.5-kg) resealable plastic containers.			
Availability	DIAMOND SEAL 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	