



DIAMOND SEAL®

Absorbent Polymer for Lost Circulation

Description DIAMOND SEAL is a water-swellaable 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/m ³)
N-SEAL™	-	3 - 5 lb/100 gallons (3.6 - 6.0 kg/m ³)
DIAMOND SEAL	-	10 - 20 lb/100 gallons (12 - 24 kg/m ³)

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 Distributor. To locate the Baroid IDP distributor 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
