



# EXB-PLUG™

## Extruded Bentonite Pellets

**Description** EXB-PLUG™, extruded bentonite pellets, is a modified, sized and graded sodium bentonite material used to seal and plug earthen boreholes .

**Applications/Functions**

- Highly recommended for use in grouting annulus in all types of wells, particularly environmental monitoring well applications
- Seal above gravel packs
- Plug decommissioned boreholes
- Stemming shot holes
- Seal around conductor pipe
- Seal lost circulation zones

**Advantages**

- Prevents entry of surface water into boreholes
- High swelling potential
- High quality seal with excellent casing stabilization
- Cost effective
- Simple to apply, mixing not required
- Prevents vertical movement of fluids in the hole between porous zones
- Forms a permanent, flexible down hole seal

**Typical Properties**

- Appearance Beige to tan extruded pellets
- Bulk Density, g/liter 1.1
- pH 10.0

**Application Amounts**

Amounts of EXB-PLUG™ Required for Plugging Applications				
Hole Diameter (mm)	Hole Volume (m <sup>3</sup> /m)	Kilograms EXB-PLUG Needed to Fill One Meter	Meters Filled by One of Bag EXB-PLUG	Bags of EXB-PLUG Needed to Fill 10 meters
51	0.002	2.3	9.87	1.0
64	0.003	3.6	6.31	1.6
76	0.005	5.2	4.38	2.3
89	0.006	7.0	3.22	3.1
102	0.008	9.2	2.47	4.1
114	0.010	11.6	1.95	5.1
127	0.013	14.4	1.58	6.3
140	0.015	17.4	1.30	7.7
152	0.018	20.7	1.10	9.1
165	0.021	24.3	0.93	10.7
178	0.025	28.2	0.81	12.4
191	0.029	32.4	0.70	14.3
203	0.032	36.8	0.62	16.2
216	0.037	41.6	0.55	18.2

229	0.041	46.6	0.49	20.5
241	0.046	51.9	0.44	22.9
254	0.051	57.5	0.39	25.3
279	0.061	69.6	0.33	30.7
305	0.073	82.8	0.27	36.5
381	0.114	129.4	0.18	57.0
457	0.164	186.4	0.12	82.1
508	0.203	230.1	0.10	101.4
635	0.317	359.5	0.06	158.4
762	0.456	517.7	0.04	228.1

### Application Notes

- Adequate annular space should be present to allow for the placement of EXB-PLUG into the area of concern without bridging. It is recommended that a minimum annular space of approximately 50 mm (2 inches) on either side of the outside dimension of the casing be present.
- The subsurface environment that the respective bentonite sealing material is to be placed into should always be taken into consideration when selecting the appropriate material to compose the well seal or abandonment material. In the event that questions regarding subsurface environments arise it is always best to consult your local Baroid IDP representative to determine if the Baroid product of choice is appropriate for the given conditions.
- For questions regarding product application and proper placement refer to the EXB-PLUG product data sheet or contact your local Baroid IDP Representative.

### Packaging

EXB-PLUG™, extruded bentonite pellets, are packaged in 25-kg (55.1-lb) synthetic woven, waterproof sacks.

### Availability

EXB-PLUG™, extruded bentonite pellets, can only be purchased through Australasian Baroid Industrial Drilling Products Retailers. 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

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