BENTONITE CHIPS

Well Abandonment Material

DESCRIPTION

BENTONITE CHIPS are a natural sodium bentonite chips designed to seal shallow boreholes or decommissioning wells.

BENTONITE CHIPS are available in Medium ¼ - ⅜" (6.4 mm – 9.5 mm) or Coarse ⅜ – ¾" (9.5 mm – 19 mm) grades.

APPLICATIONS

BENTONITE CHIPS can be used for sealing of Piezometers in boreholes by providing a seal between aquifers to prevent water migration. When absorbing water, BENTONITE CHIPS swell to fill voids, exerting pressure against all surfaces to create a flexible, low permeable seal.

ADVANTAGES

- Safe and easy to use
- Non-toxic and environmentally acceptable
- Prevents grout from permeating into gravel pack zones
- No mixing or pumping equipment required
- Can be used for regaining lost circulation
- Provides a flexible seal

TYPICAL PROPERTIES

Physical Appearance	SG
Light to dark grey chips	2.4 – 2.6

The information contained herein supersedes all previous versions, and is believed to be accurate and reliable. For the most up to date information, visit www.mudex.com.au - Mudex accepts no responsibility for the results obtained through the applications of this information and reserves the right to update information without notice.

USAGE

Please refer below to an indictive usage guide according to open hole volumes

Hole Diameter (mm)	Hole Volume (m^3/m)	Hole Volume (L/m)	Chips (kg/m)	
			¼"	⅜"
76	0.005	4.6	5.2	5.0
102	0.008	8.1	9.4	9.0
114	0.010	10.3	11.8	11.3
127	0.013	12.7	14.6	14.0
140	0.015	15.3	17.8	17.0
152	0.018	18.2	20.9	20.1
178	0.025	24.8	28.7	27.5
191	0.029	28.5	33.0	31.7
200	0.031	31.4	36.2	34.7
216	0.037	36.6	42.3	40.5
254	0.051	50.7	58.4	56.0
279	0.061	61.3	70.5	67.6
305	0.073	73.0	84.3	80.7
324	0.082	82.4	95.1	91.1
445	0.155	155.2	179.4	171.9
610	0.292	291.9	337.0	323.0
660	0.343	342.6	394.5	378.1
762	0.456	456.1	525.9	504.0
914	0.657	656.8	756.6	725.1

Note.

- Borehole stability and voids may require more chips per meter.
- It is recommended to retain a surface sample of **BENTONITE CHIPS** deposited in the water from the well to ensure an accurate time frame of maximum hydration and swelling.
- Salty & poor-quality water may reduce the chips' ability to hydrate to expectations.
- Pour chips slowly downhole to prevent bridging or binding in unsaturated conditions. Water should be added at half meter intervals.

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