Smec-Tight™

Bentonite Pellets

General Description:

Smec-Tight™ is high swelling pure bentonite specially selected to create a membrane where the low permeability layers are desired. It provides a better sealing property and is free from any toxic material hence also safe to use in aquifers.
The greatest advantage to use this product is that it will not shrink and crack with time.

Product Features: -

- 11mm dia
- High swelling sodium grade bentonite
- Swells upto 40% to its original volume
- Permeability as low as 10^{-8} m/sec
- Non- Toxic
- Seal all types of standpipe piezometer
- Non Coated
- Dust Free
- No heat of hydration

Parameter	unit	Results
Colour	-	Brown
Swelling Volume	%	20-40%
Specific Gravity	-	2.2
pH (3% dispersion)	-	10 +/- 0.5
Moisture	%	12 max
Permeability	m/sec	10^{-8}
Bulk density	Kg/m^3	970-1070
MB adsorption value (test as per VDG std)	mg/g	>370

Volumetric Swell of the product largely depends upon the water quality TDS (non saline)
The product Smec-Tight™ will swell within the range of 20-40% on 1000-500 TDS scale

Particle size distribution: -

Average Dia-11 mm
Length: < 25mm - 25%,
< 20 mm - 60%
< 5mm - 15%

AMRFEO Private Ltd

[Star Export House accreditation by Govt. of India]

ISO 9001 : 2015 Quality System

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Reference Consumption Chart basis 11 mm dia

Hole size inch	Hole Volume in cubic meter (hole dia x 1 m)	Hole Volume in Liter (hole dia x 1 m)	Kg of Smec-Tight™ pellet required per meter of hole
3	0.0046	4.6	4
4	0.0081	8.1	7
4.5	0.0103	10.3	9
5	0.0127	12.7	11
5.5	0.0153	15.3	13
6	0.0182	18.2	16
7	0.0248	24.8	21
7.5	0.0285	28.5	24
8	0.0324	32.4	28
8.5	0.0366	36.6	31
10	0.0506	50.6	43
11	0.0613	61.3	52
12	0.0729	72.9	62
12.75	0.0823	82.3	70
17.5	0.1551	155.1	133
24	0.2917	291.7	250
26	0.3424	342.4	293
30	0.4558	455.8	390
36	0.6564	656.4	562