

BENTONITE PELLETS



Description: Bentonite pellets are made from natural, organic free, high-swelling bentonite, they are designed for use in the groundwater monitoring industry to form a chemically resilient, highly impermeable and flexible seal. Bentonite pellets isolate screened intervals of monitoring wells and provide an excellent seal for abandoned boreholes.

- Functions:**
- Easy to use
 - Provide a highly impermeable well seal
 - Does not shrink or crack
 - Easy to pour to depth
 - Uniform size helps prevent bridging
 - Chemically stable.
 - Self-sealing; remain flexible when saturated and will rehydrate.

Typical Properties:	Permeability range	1 x 10 ⁻⁷ to 1 x 10 ⁻⁹ cm/sec.
	Free Swelling Volume	> 500% (after 48 hrs)
	Contained Swelling Volume	> 40% (after 48 hrs)
	Settling Velocity	40 (cm / sec)
	Swelling Onset	15 (minutes)
	Pellet Diameter	8 mm
	Pellet Length	5 -15 mm
	Bulk Density	1.05 -1.10 g / ml
	Specific Gravity	2.2 – 2.5 g / ml
	Colour	Light Grey

Typical Chemical Analysis		Composition (By XRD Analysis)	
SiO ₂	65.3 %	Montmorillonite Clay	Major (ca. 60 %)
Al ₂ O ₃	11.7	Calcite	Some
Fe ₂ O ₃	6.36	Feldspar	Minor
TiO ₂	0.63	Alpha Quartz	Minor
CaO	1.01		
MgO	3.35		
K ₂ O	1.70		
Na ₂ O	4.90		
Loss On Ignition	5.7		
H ₂ O	14 –18%		

Recommended Treatment: For shallow applications, pour bentonite pellets slowly and steadily to prevent blocking and bridging. For deep applications, bentonite pellets may be tremied into place – add bentonite pellets to the tremie pipe and quickly chase with water or air to deliver the pellets quickly and accurately to the desired depth.

Packaging: Bentonite Pellets are packaged in 25Kg plastic bags (60 x 25Kg bags per shrink wrapped pallet).