

Volclay[®] MX 80



Application: Sodium bentonite used for sealing nuclear repositories.

TYPICAL ANALYSIS

General Description	Fine granular Sodium Bentonite with an average particle size, ranging between 16 and 200 mesh.	
Functional Use	Multi-purpose product noted for rapid dispersion in water. Employed in a wide variety of industrial applications	
Purity	Hydrous aluminium silicate comprised principally of the clay mineral montmorillonite (90% minimum). Contains small portions of feldspar, calcite, and quartz.	
Chemical Formula	Diocahedral smectite, an expanding tri-layer silicate: $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$	
Moisture	Maximum 12% as shipped.	
pH	8.5 to 10.5 @ 5% solids.	
Viscosity (Fann Viscometer)	8cps minimum @ 6.25% solids.	
Dry Particle Size	Maximum 10% retained on 18 mesh (850 microns). Maximum 15% passing 200 mesh (75 micron)	
Elemental Analysis (Moisture Free)	SiO ₂ 63.02% Al ₂ O ₃ 21.08% Fe ₂ O ₃ 3.25% FeO 0.35 % Trace 0.72 %	MgO 2.67% Na ₂ O 2.57% CaO 0.65 % LOI 5.64%
Packaging	Multi-wall paper bags (25 kg), or bulk	

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