

# Volclay<sup>®</sup> MX 80



**Application:** Sodium bentonite used for sealing nuclear repositories.

## TYPICAL ANALYSIS

<b>General Description</b>	Fine granular Sodium Bentonite with an average particle size, ranging between 16 and 200 mesh.																					
<b>Functional Use</b>	Multi-purpose product noted for rapid dispersion in water. Employed in a wide variety of industrial applications																					
<b>Purity</b>	Hydrous aluminium silicate comprised principally of the clay mineral montmorillonite (90% minimum). Contains small portions of feldspar, calcite, and quartz.																					
<b>Chemical Formula</b>	Diocahedral smectite, an expanding tri-layer silicate: $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$																					
<b>Moisture</b>	Maximum 12% as shipped.																					
<b>pH</b>	8.5 to 10.5 @ 5% solids.																					
<b>Viscosity (Fann Viscometer)</b>	8cps minimum @ 6.25% solids.																					
<b>Dry Particle Size</b>	Maximum 10% retained on 18 mesh (850 microns). Maximum 15% passing 200 mesh (75 micron)																					
<b>Elemental Analysis (Moisture Free)</b>	<table border="0"> <tr> <td>SiO<sub>2</sub></td> <td>63.02%</td> <td>MgO</td> <td>2.67%</td> </tr> <tr> <td>Al<sub>2</sub>O<sub>3</sub></td> <td>21.08%</td> <td>Na<sub>2</sub>O</td> <td>2.57%</td> </tr> <tr> <td>Fe<sub>2</sub>O<sub>3</sub></td> <td>3.25%</td> <td>CaO</td> <td>0.65 %</td> </tr> <tr> <td>FeO</td> <td>0.35 %</td> <td>LOI</td> <td>5.64%</td> </tr> <tr> <td>Trace</td> <td>0.72 %</td> <td></td> <td></td> </tr> </table>	SiO <sub>2</sub>	63.02%	MgO	2.67%	Al <sub>2</sub> O <sub>3</sub>	21.08%	Na <sub>2</sub> O	2.57%	Fe <sub>2</sub> O <sub>3</sub>	3.25%	CaO	0.65 %	FeO	0.35 %	LOI	5.64%	Trace	0.72 %			
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<b>Packaging</b>	Multi-wall paper bags (25 kg), or bulk																					

The information and data contained herein are believed to be accurate and reliable. AMCOL Specialty Minerals makes no warranty of any kind and accepts no responsibility for the results obtained through application of this information.