

VOLCLAY

Application: Foundry

Grade: 200 Mesh Powder

TYPICAL ANALYSIS

General Description	VOLCLAY is a selectively-mined and processed, high-quality sodium bentonite																				
Functional Use	It is particularly useful in Foundry applications as a green sand binder and has high thermal stability.																				
Purity	Hydrous aluminium silicate comprised principally of the clay mineral montmorillonite. Contains small portions of feldspar, calcite, and quartz.																				
Chemical Formula	Diocahedral smectite, an expanding layer silicate: (Na,Ca) _{0.33} (Al _{1.67} Mg _{0.33})Si ₄ O ₁₀ (OH) ₂ .nH ₂ O																				
Moisture	Maximum 14% as shipped.																				
Dry Particle Size	Minimum 65% passing 200 mesh (74 microns).																				
pH	8.5 to 10.5 @ 5% solids																				
Viscosity	8 - 30 cps @ 6.25% solids.																				
Elemental Analysis (Moisture Free)	<table> <tr> <td>SiO₂</td> <td>63.02 %</td> <td>Al₂O₃</td> <td>21.08 %</td> </tr> <tr> <td>Fe₂O₃</td> <td>3.25 %</td> <td>FeO</td> <td>0.35 %</td> </tr> <tr> <td>MgO</td> <td>2.67 %</td> <td>Na₂O</td> <td>2.57 %</td> </tr> <tr> <td>CaO</td> <td>0.65 %</td> <td>Trace</td> <td>0.72 %</td> </tr> <tr> <td>LOI</td> <td>5.64 %</td> <td></td> <td></td> </tr> </table>	SiO ₂	63.02 %	Al ₂ O ₃	21.08 %	Fe ₂ O ₃	3.25 %	FeO	0.35 %	MgO	2.67 %	Na ₂ O	2.57 %	CaO	0.65 %	Trace	0.72 %	LOI	5.64 %		
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Packaging	Multi-wall paper bags (20 kg)																				

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.