

**General Purpose
325 Mesh Powder**

Revised 07/01/2008

VOLCLAY® 325 MESH

General Description	A selectively-mined and processed sodium bentonite. Volclay 325 mesh is a true micronized product that produces consistency and performance.																		
Functional Use	Multi-purpose suspending, emulsifying, and binding agent used in industrial applications where low grit and a small, dry particle size are required.																		
Chemical Formula	Diocahedral smectite, an expanding layer silicate: $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$																		
Elemental Composition	Typical analysis – moisture free. <table><tr><td>SiO₂</td><td>63.02 %</td></tr><tr><td>Al₂O₃</td><td>21.08 %</td></tr><tr><td>Fe₂O₃</td><td>3.25 %</td></tr><tr><td>FeO</td><td>0.35 %</td></tr><tr><td>MgO</td><td>2.67 %</td></tr><tr><td>Na₂O</td><td>2.57 %</td></tr><tr><td>CaO</td><td>0.65 %</td></tr><tr><td>Trace</td><td>0.72 %</td></tr><tr><td>LOI</td><td>5.64 %</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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Moisture	Maximum 12% as shipped.																		
Dry Particle Size	Minimum 96% passing 200 mesh (74 microns).																		
Wet Particle Size	Minimum 97% passing 200 mesh (74 microns). Minimum 90% passing 325 mesh (44 microns).																		
pH	8.5 to 10.5 @ 5% solids.																		
Viscosity	12 cps minimum @ 6.25% solids.																		
Packaging	100-pound or 50-pound multi-wall paper bags, or bulk.																		

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