

Technical Data Sheet
Granular Sodium Bentonite

Revised: 8/25/09

VOLCLAY® CUSTOM GRANULAR

General Description	Volclay Custom Granular is an evenly sized granular sodium bentonite with the fines removed. Average particle size is between 16 and 70 mesh.																		
Functional Use	For rapid liquid dispersion and for mixing with granular feed and mineral mixtures.																		
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.																		
Bulk Density	58-65 lbs./cu.ft.																		
Dry Particle Size	Maximum 25% retained on 10 mesh Minimum 98.5% retained on 40 mesh Maximum 1.5% passing 50 mesh																		
Base Exchange	Typical base exchange ions or exchangeable cations (meq / 100g) <table><tr><td>Sodium</td><td>60 - 65</td></tr><tr><td>Calcium</td><td>10 - 30</td></tr><tr><td>Magnesium</td><td>5 - 20</td></tr><tr><td>Potassium</td><td>1 - 5</td></tr></table>	Sodium	60 - 65	Calcium	10 - 30	Magnesium	5 - 20	Potassium	1 - 5										
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pH	8.0 - 10.5 @ 5% solids.																		
Packaging	50 pound multi-wall paper bags, or bulk and Bulk Bags																		

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