



## VOLCLAY<sup>®</sup> CUSTOM GRANULAR

<b>General Description</b>	Volclay <sup>®</sup> Custom Granular is an evenly sized granular sodium bentonite with the fines removed. Average particle size is between 16 and 70 mesh.																		
<b>Functional Use</b>	For rapid liquid dispersion and for mixing with granular feed and mineral mixtures.																		
<b>Chemical Formula</b>	Dioctahedral smectite, an expanding layer silicate: $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$																		
<b>Elemental Composition</b>	Typical analysis – moisture free. <table border="0" style="margin-left: 40px;"> <tr><td>SiO<sub>2</sub></td><td>63.02 %</td></tr> <tr><td>Al<sub>2</sub>O<sub>3</sub></td><td>21.08 %</td></tr> <tr><td>Fe<sub>2</sub>O<sub>3</sub></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>Na<sub>2</sub>O</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 <sub>2</sub>	63.02 %	Al <sub>2</sub> O <sub>3</sub>	21.08 %	Fe <sub>2</sub> O <sub>3</sub>	3.25 %	FeO	0.35 %	MgO	2.67 %	Na <sub>2</sub> O	2.57 %	CaO	0.65 %	Trace	0.72 %	LOI	5.64 %
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<b>Moisture</b>	Maximum 12% as shipped.																		
<b>Bulk Density</b>	58-65 lbs./cu.ft.																		
<b>Dry Particle Size</b>	Maximum 1% retained on 16 mesh (1.18 mm) Maximum 35% retained on 20 mesh (850 μm) Maximum 3.5% passing 70 mesh (212 μm)																		
<b>Base Exchange</b>	Typical base exchange ions or exchangeable cations (meq / 100g) <table border="0" style="margin-left: 40px;"> <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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<b>pH</b>	8.0 - 10.5 @ 5% solids.																		
<b>Packaging</b>	50 pound multi-wall paper bags, or bulk.																		