

VOLCLAY[®] 90

General Description	Volclay [®] 90 is a fine, free flowing granular sodium bentonite with an average particle size between 30 and 200 mesh.																		
Functional Use	Fine granular material used as a binder for livestock and poultry feeds and as a digestive aid. Reduces dustiness.																		
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 40 mesh (425 μm) Maximum 12% passing 200 mesh (75 μm)																		
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