



VOLCLAY® FD-181

Volclay® FD-181 is a selectively mined and processed sodium bentonite with superior hydration and water holding capabilities. This multi-purpose product performs well as rapid dispersion in water. Volclay FD-181 is employed in a number of agricultural applications as well as a pelleting aid.

Purity	Hydrous aluminum silicate comprised principally of the clay mineral montmorillonite. Contains minor amounts of feldspar and quartz.																		
Elemental Composition	<p>Typical analysis – moisture free</p> <table border="0"> <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	Powder – 52 - 57 lbs./cu.ft. Granular – 58 - 65 lbs./cu.ft.																		
Water Holding Capacity	Volclay absorbs 5 times its weight of water, and at full saturation it occupies a volume 12 to 15 times its dry bulk																		
Base Exchange	<p>Typical base exchange ions or exchangeable cations (meq / 100g)</p> <table border="0"> <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 @ 6% solids																		
Packaging	50lbs (22.68kgs) multi-wall paper bags Bulk																		

Last Updated August 2013

The information contained herein is believed to be accurate and reliable. AMCOL accepts no responsibility for the results obtained through use of this product. AMCOL reserves the right to update information without notice.

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