

**Special Purpose  
Granular**

Revised 8/28/09

## Asphalt Emulsion Grade Granular

<b>General Description</b>	Finely-ground sodium bentonite clay selectively mined from portions of the Clay-Spur bed of the Mowrey formation, known to have some of the highest montmorillonite content, cation exchange capacity, and lowest acid demand values.																		
<b>Functional Use</b>	An emulsifier for clay-based asphalt emulsions.																		
<b>Purity</b>	Hydrous aluminum silicate comprised principally of the clay mineral montmorillonite. Contains minor amounts of feldspar and quartz.																		
<b>Chemical Formula</b>	Diocahedral smectite, an expanding layer silicate: $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$																		
<b>Elemental Composition</b>	Typical analysis – moisture free. <table><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>Dry Particle Size</b>	25% Maximum retained on 40 mesh. 12% Maximum passing 200 mesh.																		
<b>Wet Particle Size</b>	Minimum 97% passing 200 mesh (74 microns). Minimum 95% passing 325 mesh (44 microns).																		
<b>pH</b>	8.0 to 10.5 @ 5 % solids.																		
<b>Packaging</b>	50 or 100 pound multi-wall paper bags, or bulk																		

**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