

**Special Purpose
325 Mesh Powder**

Revised 03/01/01

Asphalt Emulsion Grade 325

General Description	A 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.																		
Functional Use	An excellent emulsifier for colloidal anionic and non-ionic aqueous systems.																		
Purity	Hydrous aluminum silicate comprised principally of the clay mineral montmorillonite. Contains minor amounts of feldspar and quartz.																		
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.																		
Dry Particle Size	Minimum 96% passing 200 mesh (74 microns).																		
Wet Particle Size	Minimum 97% passing 200 mesh (74 microns). Minimum 95% passing 325 mesh (44 microns).																		
pH	8.5 to 10.5 @ 5% solids.																		
Viscosity	8 - 30 cps @ 6.25% solids.																		
Packaging	50 or 100 pound multi-wall paper bags, or bulk																		

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