

**General Purpose
Calcium Bentonite**

Revised 05/25/05

Panther Creek[®] 150

General Description	Panther Creek 150 is a consistent, high-quality calcium bentonite supplied as a 150 mesh powder.																
Functional Use	A general purpose filler and binder for compressed and pelletized products. Used to increase green compression strength and impart flowability.																
Purity	Hydrous aluminum silicate comprised principally of the clay mineral montmorillonite. Montmorillonite content 85% minimum. Contains minor amounts of feldspar, calcite, and quartz.																
Moisture	Maximum 12% as shipped.																
Dry Particle Size	55 – 75% passing 200 mesh (74 micron).																
pH	6.0 to 10.0 @ 5% solids.																
CEC	97 – 109 meq / 100g.																
Exchangeable Calcium	Minimum 50 meq / 100g.																
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>60.50 %</td></tr><tr><td>Al₂O₃</td><td>18.20 %</td></tr><tr><td>Fe₂O₃</td><td>5.25 %</td></tr><tr><td>MgO</td><td>3.26 %</td></tr><tr><td>CaO</td><td>3.14 %</td></tr><tr><td>Na₂O</td><td>0.20 %</td></tr><tr><td>K₂O</td><td>0.14 %</td></tr><tr><td>LOI</td><td>4.85 %</td></tr></table>	SiO ₂	60.50 %	Al ₂ O ₃	18.20 %	Fe ₂ O ₃	5.25 %	MgO	3.26 %	CaO	3.14 %	Na ₂ O	0.20 %	K ₂ O	0.14 %	LOI	4.85 %
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Packaging	Multi-wall paper bags 100-pound or 50-pound, 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