

**General Purpose  
Calcium Bentonite**

Revised: 8/28/09

## PC Catalyst<sup>®</sup>

<b>General Description</b>	PC Catalyst is a high cation exchange capacity, non-swelling calcium bentonite.																
<b>Functional Use</b>	Special-purpose, co-reactant catalyst and carrier exhibiting a high surface area and low grit content.																
<b>Purity</b>	Hydrous aluminum silicate comprised principally of the clay mineral montmorillonite. Montmorillonite content 85% minimum. Contains minor amounts of feldspar, calcite, and quartz.																
<b>Moisture</b>	Maximum 12% as shipped.																
<b>Dry Particle Size</b>	Minimum 70% passing 200 mesh (74 micron).																
<b>pH</b>	6.0 to 10.0 @ 5% solids.																
<b>CEC</b>	97 – 109 meq / 100g.																
<b>Exchangeable Calcium</b>	Minimum 50 meq / 100g.																
<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>60.50 %</td></tr><tr><td>Al<sub>2</sub>O<sub>3</sub></td><td>18.20 %</td></tr><tr><td>Fe<sub>2</sub>O<sub>3</sub></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>Na<sub>2</sub>O</td><td>0.20 %</td></tr><tr><td>K<sub>2</sub>O</td><td>0.14 %</td></tr><tr><td>LOI</td><td>4.85 %</td></tr></table>	SiO <sub>2</sub>	60.50 %	Al <sub>2</sub> O <sub>3</sub>	18.20 %	Fe <sub>2</sub> O <sub>3</sub>	5.25 %	MgO	3.26 %	CaO	3.14 %	Na <sub>2</sub> O	0.20 %	K <sub>2</sub> O	0.14 %	LOI	4.85 %
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<b>Packaging</b>	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