

**Bentonite
Hydroclassified**

Revised 08/13/01

POLARGEL®

General Description A specially processed, water-washed product, Polargel is a selectively-mined sodium montmorillonite clay, supplied as a white micro fine powder.

Functional Use Suspending agent, viscosifier, binder and emulsion stabilizer for a variety of industrial products where low grit, light color, and high purity are required.

Purity This mineral is specially processed to control both purity and performance.

Solubility Insoluble in water or alcohol; one gram of clay produces a surface area greater than 750 sq. meters when fully dispersed.

Brightness	80 minimum	Texture	Soft, slippery
Acid Demand	8 mls/gram maximum	Odor	None
Moisture	8% maximum as shipped	Taste	None
Viscosity	40-200 cps @ 5% solids	Color	White
Spec. Gravity	2.6	pH	9.0-10.0 @ 5% solids

Dry Particle Size Minimum 99.00% finer than 200 mesh (74 microns).

Wet Particle Size Minimum 99.75% finer than 200 mesh (74 microns).
Minimum 99.00% finer than 325 mesh (44 microns).

Chemical Formula Dioctahedral 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.

SiO ₂	75.44 %
Al ₂ O ₃	15.28 %
MgO	2.54 %
Fe ₂ O ₃	1.65 %
CaO	2.29 %
Na ₂ O	1.25 %
K ₂ O	1.00 %
LOI	4.20 %

Packaging 5-ply multi-wall poly-lined bags, moisture-resistant, 50 pound net.

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