

**White Bentonite
Hydroclassified**

Revised 05/25/01

POLARGEL® T

General Description	A specially processed, water-washed product, Polargel T is a selectively- mined sodium montmorillonite clay, supplied as a white microfine powder.		
Functional Use	A suspending agent, viscosifier, binder and emulsion stabilizer. A highly efficient form of purified white bentonite principally used in coating and cleaning compounds (polishes, detergents, etc.) Used whenever a white, inorganic, thixotropic material is desired for formulations.		
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
Moisture	3-10% as shipped	Odor	None
Free Swell	Minimum 24 mls	Taste	None
Viscosity	200-800 cps @ 5% solids	Color	White
Spec. Gravity	2.6	pH	8.5-10.5 @ 2% solids
Gel Formation	Maximum 2 mls		
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	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.		
	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