

White Bentonite
Hydroclassified

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:	N/A
Free Swell:	Minimum 24 mls	Taste:	N/A
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: Dioctahedral smectite, an expanding layer silicate:
(Na,Ca) 0.33 (Al1.67Mg0.33) Si4O10 (OH) 2.nH2O

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%

All metals are expressed as oxides, which are complexed in the mineral.

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