

Polargel[®] HV

Application: Suspending agent, viscosifier, emulsifier for a variety of applications

Grade: Microfine Powder

TYPICAL ANALYSIS

General Description	A specially processed, water-washed product, Polargel T is 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.		
Chemical Formula	Diocahedral smectite, an expanding layer silicate: $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$		
Brightness	80 Minimum	Texture	Soft, slippery
Moisture	3-10% as shipped	Odour	None
Viscosity	200 - 800 cps @ 5% solids	Taste	None
Free Swell	Minimum 24 mls	Colour	White
Spec. Gravity	2.6	pH	8.5 – 10.5 @ 2% solids
Solubility	Insoluble in water or alcohol; 1g of clay produces a surface area greater than 750 m ² when fully dispersed		
Dry Particle Size	99.00% less than 200 mesh (74 micron)		
Wet Particle Size	99.75% less than 200 mesh (74 micron) 99.00% less than 325 mesh (44 micron)		
Elemental 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 0.35%	
	K ₂ O 1.00%	LOI 4.20	
Packaging	5 ply Multi wall poly lined bags, moisture resistant bags (25 kg)		

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