

White Bentonite
USP/NF & CTFA Hydroclassified

Revised 08/13/01

POLARGEL® HV

General Description	A specially processed, water-washed product, Polargel HV is a selectively- mined sodium montmorillonite clay supplied as a white microfine powder.		
Functional Use	Suspending agent, viscosifier, binder and emulsion stabilizer for cosmetics, pharmaceuticals and personal care products. Promotes excellent rheology and fine body to enhance a broad range of formulations. Polargel HV delivers high viscosity to be incorporated in low solids preparations.		
Purity	This mineral is specially processed to control both purity and performance. Polargel HV meets all requirements set forth by the USP 24 - NF 19 for Bentonite.		
Microbial Plate Count	Aerobic microbial plate count is typically 100 cfu/g. No presence of E. coli, S. aureus, Salmonella sp. or P. aeruginosa.		
Solubility	Insoluble in water or alcohol; one gram of clay produces a surface area greater than 750 sq. meters when fully dispersed.		
Brightness	83–87	Texture	Soft, slippery
Gel Formation	2 mls maximum	Taste	None
Moisture	5-8% as shipped	Color	White
Free Swell	Minimum 24 mls	Odor	None
Viscosity	1200–2400 cps @ 5% solids	pH	9.5-10.5 @ 2% solids
Spec. Gravity	2.6		
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).		
Elemental Composition	Typical analysis – moisture free.		
	SiO₂	75.44 %	
	Al₂O₃	15.28 %	
	MgO	2.54 %	
	Fe₂O₃	1.65 %	
	CaO	2.29 %	
	Na₂O	1.25 %	
	K₂O	1.00 %	
	LOI	4.20 %	
Packaging	4-ply poly-lined package in boxes, 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