

White Bentonite
Hydroclassified
USP/NF & CTFA

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/NF 39-NF34 monograph for Bentonite.

SPECIFICATIONS

Test Description

Specification

Method

Alkalinity	Liquid Decolourised	European Pharmacopoeia 9.2
Coarse Particles	0.1g Retained Maximum	European Pharmacopoeia 9.2
Sedimentation Volume	2 mls. Maximum	European Pharmacopoeia 9.2
Swelling Power	22 mls Minimum	European Pharmacopoeia 9.2
L.O.D.	15% Maximum	European Pharmacopoeia 9.2
Arsenic	5 ppm Maximum	USP <233>
Lead	40 ppm Maximum	USP <233>

MICROBIAL LIMITS

Test Description

Specification

Method

Aerobic Plate Count	< 100 CFU /g	USP <61/62>
Yeast & Mold	< 100 CFU /g	USP <61/62>
P. aeruginosa	Negative/10 g	USP <61/62>
S. aureus	Negative/10 g	USP <61/62>
E. coli	Negative/10 g	USP <61/62>
Gram Negatives	Negative/10 g	USP <61/62>
Salmonella	Negative/10 g	USP <61/62>

Elemental

Analysis:

Typical values listed are not to be construed as rigid specifications.

SiO ₂	75.76%
Al ₂ O ₃	16.04%
MgO	1.47%
Fe ₂ O ₃	1.67%
CAO	1.86%
Na ₂ O	1.70%
K ₂ O	1.03%
LOI	9.40%

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

Packaging:

4-ply poly-lined package in boxes, moisture resistant, 50 pound net.