

Polargel® CA

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

Grade: Powder

TYPICAL ANALYSIS

A micronized white calcium bentonite that is selectively mined and supplied as a free-flowing powder. This specialty clay product is used in applications requiring light colour and high solids loading.

Functional Use Applications where high solid levels and low viscosity are desired. Used as a binder and plasticizer to ease extrusion and increase green strength with

minimal viscosity increase.

Purity

Hydrous aluminum silicate composed principally of the clay mineral montmorillonite. Contains minor amounts of feldspar, calcite, and quartz.

Chemical Formula Dioctahedral smectite, an expanding layer silicate:

 $(Na,Ca)_{0.33} (Al_{1.67}Mg_{0.33})Si_4O_{10}(OH)_2 nH_2O$

Texture Soft, slippery **Brightness** 70 minimum Moisture 15% Maximum Odour None 0 - 50 cps @ 5% **Viscosity Taste** None solids Spec. Gravity 2.6 pН 7.0 - 10.0 @ 5% solids

Solubility Insoluble in water or alcohol; 1g of clay produces a surface area greater than

750 m² when fully dispersed

Dry Particle Size99.00% less than 200 mesh (74 micron)Wet Particle Size99.75% less than 200 mesh (74 micron)99.00% less than 325 mesh (44 micron)

 Elemental Analysis
 SiO_2 75.44% Al_2O_3 15.28%

 (Moisture Free)
 MgO
 2.54% Fe₂O₃
 1.65%

 CaO
 2.29% Na₂O
 0.35%

 K₂O
 1.00% LOI
 4.20

Packaging 5 ply Multi-wall, poly lined, moisture resistant bags (25 kg)

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