

1500 WEST SHURE DRIVE ARLINGTON HEIGHTS. IL 60004

800.426.5564 | 847.392.4600

F | 847.506.6199

WWW.COLLOID.COM AMERICAN COLLOID COMPANY



CERAMICS | PAINTS & COATINGS | WINE & JUICE CLARIFICATION |

**White Calcium Bentonite** Micronized

Revised 05/25/01

## POLARGEL® CA

General Description 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

color 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.

Solubility

Insoluble in water or alcohol; one gram of clay produces a surface area greater than

**Texture** 

750 sq. meters when fully dispersed.

Moisture **Viscosity** Spec. Gravity **Brightness** 

15% maximum as shipped 0-50 cps @ 5% solids 2.6

70 minimum

Odor **Taste** 

None На 7.0-10.0 @ 2% solids

None

Soft, slippery

**Dry Particle** 

Minimum 99.00% finer than 200 mesh (74 microns).

Size

**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:

 $(Na,Ca)_{0.33}(Al_{1.67}Mg_{0.33})Si_4O_{10}(OH)_2nH_2O$ 

**Elemental** Composition Typical analysis – moisture free.

75.44 % SiO<sub>2</sub>  $Al_2O_3$ 15.28 % 2.54 % MgO Fe<sub>2</sub>O<sub>3</sub> 1.65 % CaO 2.29 % Na₂O 0.35 %  $K_2O$ 1.00 % Lol 4.20 %

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

wholly-owned subsidiary of AMCOL International Corporation

