

## PRODUCT DATA SHEET:

### Mineral Thickeners



Life Sciences

#### Bentonite 364 NF / BC

**Bentonite 364** is used extensively in pharmaceutical products, personal care products and cosmetics. This grade of bentonite is typically water-washed to remove impurities and lower the grit content.

**Pharmaceuticals** - High purity bentonites meeting the standards of the National Formulary are used in pharmaceutical Preparations such as, acne lotions, medicinal skin creams, ointments, skin creams, salves, tablet binding, powder preparations, etc.

**Cosmetics** - High purity bentonites are used in cosmetic preparations as pigment binders and suspending agents. They are also used as thickeners in lotions, creams, liquid facial cleansers, anti dandruff shampoos, body powders, deodorant sprays, deodorant sticks, etc.

TYPICAL PHYSICAL PROPERTIES	
Color	White
Dry Brightness	83 - 91
Density (g/cm <sup>3</sup> )	2.60
Viscosity (cps @ 5%)	1200 - 2400
Swelling Power (min)	24 mls
Gel Formation (max)	2 mls
% Thru 325 Mesh (wet)	99.00
% Thru 200 Mesh (wet)	99.75

TYPICAL CHEMICAL PROPERTIES	
SiO <sub>2</sub> - Silicon Dioxide (%)	75.76
Al <sub>2</sub> O <sub>3</sub> - Aluminum Oxide (%)	16.04
Na <sub>2</sub> O - Sodium Oxide (%)	1.70
MgO - Magnesium Oxide (%)	1.47
CaO - Calcium Oxide (%)	1.86
Fe <sub>2</sub> O <sub>3</sub> - Ferric Oxide (%)	1.67
K <sub>2</sub> O - Potassium Oxide (%)	1.03
Loss on Ignition (%)	9.40
Moisture (%)	5.0 - 8.0
pH Value	9.5 - 10.5

**BSI Code:** 364

**INCI:** Bentonite

**C.A.S. Number:** 1302-78-9

**Monographs:** NF

**Name:** Polargel HV

**Microbial Limits Plate Count:** Aerobic microbial plate count is typically 100 cfu/g. No presence of S. aureus, E. coli, Salmonella sp. or P. aeruginosa.

**Storage:** Store in cool location, keep away from heat and direct sunlight. Keep container sealed.

**Handling Precautions:** Please refer to the Bentonite 364 NF / BC Safety Data Sheet.

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