

## PRODUCT DATA SHEET:

### Mineral Thickeners



Life Sciences

#### Bentonite 4444 NF / BC - White

**Bentonite 4444** 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	
Dry Brightness	82 - 86
Specific Gravity	2.50
Swelling Power (ml)	24+
Gel Formation (max ml)	2.0
% Thru 200 Mesh	100

**BSI Code:** 4444

**INCI:** Bentonite

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

**Monographs:** NF

**Name:** Albagel Premium

TYPICAL CHEMICAL PROPERTIES	
SiO <sub>2</sub> - Silicon Dioxide (%)	58.0 - 61.0
Al <sub>2</sub> O <sub>3</sub> - Aluminum Oxide (%)	21.0 - 22.0
Na <sub>2</sub> O - Sodium Oxide (%)	3.7 - 4.2
MgO - Magnesium Oxide (%)	3.0 - 4.0
CaO - Calcium Oxide (%)	2.0 - 2.5
Fe <sub>2</sub> O <sub>3</sub> - Ferric Oxide (%)	0.6 - 1.0
K <sub>2</sub> O - Potassium Oxide (%)	0.3 - 0.5
TiO <sub>2</sub> - Titanium Dioxide (%)	0.18 - 0.25
Pb - Lead (max ppm)	40
As - Arsenic (max ppm)	5
Moisture (%)	5.0 - 8.0
pH Value	9.5 - 10.5

**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 4444 NF / BC Safety Data Sheet.

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