

PRODUCT DATA SHEET:

Mineral Thickeners



Life Sciences

Bentonite 342 NF / BC

Bentonite 342 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 (min)	80
Density (g/cm ³)	2.60
Viscosity (cps @ 5%)	40 - 200
Acid Demand (max pH)	4.0
% Thru 325 Mesh (wet)	99.00
% Thru 200 Mesh (wet)	99.75

BSI Code: 342

INCI: Bentonite

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

Monographs: NF

Name: Polargel

TYPICAL CHEMICAL PROPERTIES	
SiO ₂ - Silicon Dioxide (%)	75.44
Al ₂ O ₃ - Aluminum Oxide (%)	15.28
Na ₂ O - Sodium Oxide (%)	1.25
MgO - Magnesium Oxide (%)	2.54
CaO - Calcium Oxide (%)	2.29
Fe ₂ O ₃ - Ferric Oxide (%)	1.65
K ₂ O - Potassium Oxide (%)	1.00
Pb - Lead (max ppm)	40
As - Arsenic (max ppm)	5
Loss on Ignition (%)	9.20
Moisture (%)	8.0
pH Value	9.0 - 10.0

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 342 NF / BC Safety Data Sheet.

While the data presented in this information sheet reflects the present state of our knowledge and is believed to be accurate and reliable, it is provided without liability as a courtesy only and is to be used and relied upon at the reader's sole risk. Readers should make their own determination as to the suitability of any product for a particular use. We recommend that readers conduct their own product trials before using any particular product. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties rights. The recommendations contained herein do not constitute a warranty, either express or implied, as to the fitness or suitability of any product for a particular purpose. For more information and assistance, please contact Technical Services at BSL_regulatory_dept@brenntag.com

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