

TECHNICAL DATA SHEET

BENTONE HYDROCLAY™ 1100

Non-animal origin rheological additive for aqueous cosmetics and toiletries

GENERAL INFORMATION

BENTONE HYDROCLAY™ 1100 is a rheological additive, based on a purified hectorite clay, which imparts thixotropy and good anti-settling properties to the water phase of cosmetics. It is particularly effective as a means of improving suspension control without unduly increasing viscosity.

BENTONE HYDROCLAY™ 1100 is an acid- stable clay and has the ability to absorb oils in skin treatments.

INCI NAME

Magnesium Aluminum Silicate

CHEMICAL & PHYSICAL PROPERTIES

% Drying Loss When Packed	max. 6.0
% Thru 200 Mesh Sieve	95.0 – 100.0
Viscosity (cP)	300 – 1000
% Calcium Carbonate	Max. 9.6

These are typical properties not to be used for specification purposes.

KEY PROPERTIES

- Vegan
- Is easily processed as a powder or pre-gel
- Provides suspension control at low viscosity
- Increases the viscosity of the aqueous phase
- Imparts thermostable thixotropy/pseudoplasticity
- Reduces phase separation and syneresis
- Is non-abrasive and imparts smooth silky feel to cosmetics and personal care products

APPLICATIONS

- Oil in water emulsions
- Water in oil emulsions
- Creams
- Lotions
- Antiperspirants
- Deodorants
- Colour cosmetics
- Face packs
- Facial make-up
- Sun care products
- Hair care products

SHELF LIFE

BENTONE HYDROCLAY™ 1100 has a minimum shelf life of 4 (four) years from date of manufacture.

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LEVEL OF USE

Typical use levels are 0.25%-5% **BENTONE HYDROCLAY™ 1100** additive by weight of total formulation depending upon the degree of suspension, the rheological properties or viscosity required.

INCORPORATION

BENTONE HYDROCLAY™ 1100 rheological additive should be incorporated using high-shear equipment (high-speed disc impellers, rotor-stator mixers etc.)

To avoid lumping, add **BENTONE HYDROCLAY™ 1100** slowly to warm water and, to achieve best results, disperse under high-shear mixing for 25-40 minutes.

Pre-gels, up to 10%, can be prepared in water but viscosity may continue to increase over 24-48 hours with **BENTONE HYDROCLAY™ 1100** levels above 2%. This effect can be significantly reduced by using water at a temperature above 35°C.

It is important that the **BENTONE HYDROCLAY™ 1100** is fully dispersed in the water before any other components, particularly surfactants, are added. **BENTONE HYDROCLAY™ 1100** can, in some cases, be processed as a powder added directly to the formulation. Intensive shear together with the solids of the formulation will provide maximum dispersion and gelation.

STORAGE RECOMMENDATIONS

Store in a dry place. **BENTONE HYDROCLAY™ 1100** additive will absorb atmospheric moisture in high humidity conditions.

HEALTH & SAFETY

Before using this product, please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

QUALITY ASSURANCE

Quality and continuous improvement are paramount to our business. Facility manufacturing Bentone Hydroclays™ has established strong integrated management system and holds ISO 9001, ISO 14001, and ISO 45001 certifications.

SUSTAINABILITY

BENTONE HYDROCLAY™ 1100 is a raw material approved by Ecocert Greenlife in accordance with the COSMOS Standard.



**COSMOS
APPROVED**

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