

TECHNICAL DATA SHEET

BENTONE HYDROCLAY™ 2000

Non-animal origin rheological additive for aqueous cosmetics and toiletries

GENERAL INFORMATION

BENTONE HYDROCLAY™ 2000 additive is a highly beneficiated, easily dispersible powdered smectite clay. It imparts thixotropic viscosity and good suspension control to the water phase of cosmetics.

INCI NAME

Hectorite

CHEMICAL & PHYSICAL PROPERTIES

% Drying Loss When Packed	max. 7.5
% Thru 200 Mesh Sieve	94.0 – 100.0
Gel Ability (cP)	1600 – 2400

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

KEY PROPERTIES

- Vegan
- Is easily processed as a powder or pre-gel
- Increases the viscosity of the aqueous phase and stabilises viscosity on ageing, at varying temperatures and under different shear conditions
- Imparts thermostable thixotropy/pseudoplasticity
- Provides excellent suspension control
- 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™ 2000 has a minimum shelf life of 4 (four) years from date of manufacture.

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LEVEL OF USE

Typical use levels of **BENTONE HYDROCLAY™ 2000** are 0.3% to 1.0% based on total system weight.

INCORPORATION

BENTONE HYDROCLAY™ 2000 additive is easy to process. No chemical activator or increased temperature is required.

- Add **BENTONE HYDROCLAY™ 2000** to a vessel containing only water. If necessary, adjust pH level to less than pH 7.5. High pH may lead to dispersion difficulties due to rapid hydration of **BENTONE HYDROCLAY™ 2000**, whereas a low pH leads to reduced efficiency and excessively long hydration times.
- Mix at highest practicable speed for 10 minutes.
- After sufficient hydration time, introduce glycols, defoamers, biocides, dispersants etc. (mix).
- Add pigments, fillers, active ingredients and disperse.
- Complete dilution.

STORAGE RECOMMENDATIONS

Store in a dry place. **BENTONE HYDROCLAY™ 2000** 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™ 2000 is a raw material approved by Ecocert Greenlife in accordance with the COSMOS Standard.



**COSMOS
APPROVED**

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