

## TECHNICAL DATA SHEET

## BENTONE HYDROCLAY™ 2100

Non-animal origin rheological additive for aqueous cosmetics and toiletries

## GENERAL INFORMATION

**BENTONE HYDROCLAY™ 2100** additive is a highly beneficiated, easily dispersible powdered smectite clay. It imparts thixotropic viscosity to the water phase of cosmetics. It is particularly effective as a means of improving suspension control without unduly increasing viscosity.

## INCI NAME

Hectorite

## CHEMICAL &amp; PHYSICAL PROPERTIES

% Drying Loss When Packed	max. 7.5
% Thru 200 Mesh Sieve	94.0 – 100.0
Gel Ability (cP)	160 – 690
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™ 2100** has a minimum shelf life of 4 (four) years from date of manufacture.

## BENTONE HYDROCLAY™ 2100

### LEVEL OF USE

Typical use levels of **BENTONE HYDROCLAY™ 2100** are 0.3% to 1.0% based on total system weight.

### INCORPORATION

**BENTONE HYDROCLAY™ 2100** additive is easy to process. No chemical activator or increased temperature is required.

- Add **BENTONE HYDROCLAY™ 2100** 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™ 2100**, 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™ 2100** 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™ 2100** is a raw material approved by Ecocert Greenlife in accordance with the COSMOS Standard.



**COSMOS  
APPROVED**

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