

BENTONE HYDROCLAY™ 700

Non-animal origin rheological additive for aqueous cosmetics and toiletries

GENERAL INFORMATION

BENTONE HYDROCLAY™ 700 additive is a highly beneficiated, easily dispersible powdered blend of smectite clay and Xanthan gum. In comparison to pure clay, it imparts slightly less thixotropic viscosity to the water phase of cosmetics. It is particularly effective as a means of providing a 100% natural, stable and light sensory rheology modification.

INCI NAME

Hectorite (and) Xanthan gum

CHEMICAL & PHYSICAL PROPERTIES

% Drying Loss When Packed	max. 10.0
% Thru 200 Mesh Sieve	80.0 – 100.0
Gel Ability (cP)	800 – 3500

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

APPLICATIONS

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

KEY PROPERTIES

- 100% natural, COSMOS approved and 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 rheology
- Provides excellent suspension control
- Broad pH and electrolyte tolerance
- Reduces phase separation and syneresis
- Imparts smooth silky feel to cosmetics and personal care products

SHELF LIFE

BENTONE HYDROCLAY™ 700 has a minimum shelf life of 4 (four) years from date of manufacture.

LEVEL OF USE

Typical use levels of **BENTONE HYDROCLAY™ 700** are 0.3% to 2.5% by weight of total formulation depending upon the degree of suspension, the rheological properties or viscosity required.

TECHNICAL DATA SHEET

BENTONE HYDROCLAY™ 700

INCORPORATION

BENTONE HYDROCLAY™ 700 is easy to process. There are 3 different ways of incorporation in a formulation:

1. Disperse BENTONE HYDROCLAY™ 700 in Glycerin, Butylene Glycol, Propanediol, Propylene Glycol etc. at a ratio of 1 (Clay) : 3 (Humectant). Add to water with propeller mixing at 500 rpm.
2. Slowly add BENTONE HYDROCLAY™ 700 to water under medium shear, then mix at highest possible shear for 10 minutes. It is important that the BENTONE HYDROCLAY™ 700 is fully dispersed in the water before any other components, particularly surfactants, are added.
3. Add BENTONE HYDROCLAY™ 700 to the hot oil phase of the formulation and mix well. Then add to water phase and homogenize for 15 minutes. The clay moves to the water phase and thickens the water.

STORAGE RECOMMENDATIONS

Store in a dry place. BENTONE HYDROCLAY™ 700 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™ 700 is a raw material approved by Ecocert Greenlife in accordance with the COSMOS Standard.



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