

BENTONE HYDROCLAY™ 550

Non-animal Origin Rheological Additive For Aqueous Cosmetics And Toiletries

GENERAL INFORMATION

BENTONE HYDROCLAY™ 550 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

Magnesium Aluminum Silicate

CHEMICAL & PHYSICAL PROPERTIES

% Drying Loss When Packed	max. 8
% Thru 200 Mesh Sieve	95.0 – 100.0

These are typical properties not to be used for specification purposes

APPLICATIONS

- Oil in Water Emulsions
- Creams
- Lotions
- Anti-Perspirants
- Deodorants
- Colour Cosmetics
- Face Packs
- Facial Make-Up
- Sun Care Products
- Hair Care Products

KEY PROPERTIES

- Non-animal origin
- 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
- Is stable over the pH range 4-10
- Imparts thermostable thixotropy/pseudoplasticity
- Provides dependable suspension control
- Reduces phase separation and syneresis

- Is non-abrasive and imparts smooth silky feel to cosmetics and personal care products

INCORPORATION

BENTONE HYDROCLAY™ 550 additive is easy to process.

- Add **BENTONE HYDROCLAY™ 550** to a vessel containing only water, pH 7.0 - 8.0. Mix at highest practicable speed for 10 minutes. Warm water can improve hydration speed.
- After sufficient hydration time, introduce glycols, defoamers, biocides, dispersants etc. (mix).
- Add pigments, fillers, active ingredients and disperse.
- Complete dilution.

Alternate process:

- Mix **BENTONE HYDROCLAY™ 550** in a humectant at a minimum ratio of 3 parts humectant to 1 part clay.
- Add the mixture to water with propeller mixing.
- Mix for 5—10 minutes until fully hydrated.
- Continue with batch processing.

LEVELS OF USE

Typical use levels of **BENTONE HYDROCLAY™ 550** are 0.3% to 1.0% based on total system weight.

HEALTH AND 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.

STORAGE RECOMMENDATIONS

Store in a dry place. **BENTONE HYDROCLAY™ 550** additive will absorb atmospheric moisture in high humidity conditions.

SHELF LIFE

BENTONE HYDROCLAY™ 550 has a minimum shelf life of 4 (four) years from date of manufacture.

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BENTONE HYDROCLAY™ 550

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



**COSMOS
APPROVED**

NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchasers will be subject to a separate agreement which will not incorporate this document.

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