

## BENTONE HYDROCLAY™ 900

Non-animal Origin Rheological Additive For Aqueous Cosmetics And Toiletries

### GENERAL INFORMATION

**BENTONE HYDROCLAY™ 900** additive is an organically-modified hectorite clay additive designed for the water phase of cosmetics. It is a highly efficient thickener providing significantly higher viscosity than other clay-based additives.

### INCI NAME

Hectorite and Hydroxyethylcellulose

### CHEMICAL & PHYSICAL PROPERTIES

% Drying Loss When Packed	max. 7.5
% Thru 200 Mesh Sieve	98.5 – 100.0
Gel Ability (cP)	8000 - 12000

These are typical properties not to be used for specification purposes

### APPLICATIONS

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

### 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
- Is compatible with synthetic resin dispersions such as polyvinyl acetate, polyvinyl propionate, polyacrylics and their copolymers as well as with

polar solvents, such as alcohols and glycols

- Is stable over the pH range 3-11
- Provides high viscosity increase at low shear rates
- Imparts suspension control
- Reduces phase separation and syneresis
- Is non-abrasive, non-irritant and imparts a smooth silky feel to cosmetics and personal care products

### INCORPORATION

**BENTONE HYDROCLAY™ 900** additive is easy to process. No chemical activator or increased temperature is required; however, warming the water to above 35°C will accelerate dispersion and hydration rates.

- Add **BENTONE HYDROCLAY™ 900** to a vessel containing only water, pH 7.0 - 8.0. If necessary, adjust pH level. High pH may lead to dispersion difficulties due to rapid hydration of **BENTONE HYDROCLAY™ 900**, 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.

### LEVELS OF USE

Typical use levels are 0.1% - 1.0% **BENTONE HYDROCLAY™ 900** additive by weight of total formulation depending upon the degree of suspension, the rheological properties or viscosity required.

### 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.

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## BENTONE HYDROCLAY™ 900

### STORAGE RECOMMENDATIONS

Store in a dry place. **BENTONE HYDROCLAY™ 900** additive will absorb atmospheric moisture in high humidity conditions.

### SHELF LIFE

**BENTONE LT** has a minimum shelf life of 4 (four) years from date of manufacture.

### QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

*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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