

## BENTONE® ULTIMATE CCC

Non-animal origin rheological additive for cosmetics and toiletries

### GENERAL INFORMATION

**BENTONE GEL ULTIMATE CCC** is a specially prepared dispersion of a non-animal origin organically modified hectorite clay in a light silicone alternative.

**BENTONE ULTIMATE CCC** delivers a combination of benefits in a single, easy to use product. It is designed to impart rheological control and suspension to the oil phase of cosmetics. It is an easily spreadable, non-oily emollient, which leaves a soft, non-tacky skin feel. It is often used as an alternative to silicones. This grade is designed with a high active content to impart rheological control and suspension in cosmetic products at low use levels.

**BENTONE ULTIMATE CCC** is also useful in emulsions and can be used in "cold process" systems. It provides thermostable viscosity control of the emulsion's oil phase, imparts thixotropic flow, improves application properties and imparts a pleasant residual silkiness to the skin.

### INCI NAME

Coco-Caprylate/Caprate, Disteardimonium Hectorite, Glyceryl Oleate

### KEY PROPERTIES

Non-animal origin

Rheological control

### CHEMICAL & PHYSICAL PROPERTIES

Colour / Form	Tan
Viscosity, Brookfield Helipath, TF spindle, Pa.s @ 2.5 rpm	1000 — 6500
Infrared	To match standard
% Ash	9.50—12.50
Microbial Content	Less than 100 cfu/g

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

### APPLICATIONS

- Face and body care
- Masks
- Lipsticks
- Concealers
- Sun care
- Antiperspirants

- Predictable, reproducible and stable viscosity control
- Shear-thinning viscosity
- Excellent suspension of pigments and actives
- Controlled alignment of special-effect pigments
- Thermostable viscosity raises apparent melting point and ensures cost-efficient use of UV filters
- Emulsion stabilisation [w/o and o/w ]

Convenience

- Optimally pre-activated and dispersed organoclay
- Incorporates with medium-shear mixing
- Can be added at any convenient stage of manufacture
- Gives a high degree of formulating flexibility
- Provides highly reproducible results for multi-site production requirements

Acceptability

- Non-abrasive
- Provides smooth feel to skin
- Toxicologically safe ingredients

*continued...*

## BENTONE® ULTIMATE CCC

### INCORPORATION

**BENTONE ULTIMATE CCC** can be added at any convenient stage during the manufacturing process.

**BENTONE ULTIMATE CCC** is a very high viscosity, shear-thinning product. To ensure good homogeneous mixing is achieved, care must be taken to overcome the large viscosity differential existing between the BENTONE ULTIMATE and the other lower viscosity components. Choice of mixing equipment and the configuration within the mixing vessels are critical factors in developing the optimum performance of the BENTONE ULTIMATE additives. The use of medium- to high-shear mixing equipment is recommended.

### BATCH PROCESSING

**Single Phase Systems** : Always add the BENTONE GEL, under shear, to a portion of the solvent with which it is most compatible. Mix until homogeneous before adding the other ingredients.

**Multi-Phase Systems e.g. emulsions** : Treat as the single phase but always ensure the BENTONE ULTIMATE is thoroughly mixed in before the emulsification stage.

**Continuous Processing** : The BENTONE ULTIMATE should be added to the oil phase at any convenient point that meets the above guidelines for batch processing. In multi-manifold systems, a flowable pre-mix of the BENTONE ULTIMATE with a compatible oil or solvent should be made in a side pot. Where only lower-shear mixing equipment is available, stir the BENTONE ULTIMATE alone and then slowly add the most compatible component by portions, always ensuring the mixture remains homogeneous at each stage.

### LEVELS OF USE

The level of use of the BENTONE ULTIMATE will depend on the formulation. Suspension and stability benefits can be achieved with 3-5% additions. Novel emulsification effects can be achieved, giving light feel and lower viscosities.

### COMPATIBILITY

BENTONE ULTIMATE additives can contribute greatly to a formulation's stability by improving the compatibility of other ingredients. Care should be taken to determine the compatibility of the BENTONE GEL with the oils, actives or surfactant ingredients within a formulation. The wide range of grades available allows selection of the optimal carrier and organoclay for each system.

### 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.

### SHELF LIFE

**BENTONE ULTIMATE CCC** has a minimum shelf life of 2 (two) years from date of manufacture.

### STORAGE RECOMMENDATIONS

Store away from excessive heat. Keep from freezing. Store above 10°C.

### QUALITY ASSURANCE

Quality and continuous improvement are paramount to our business. Facility manufacturing Bentone Gels® has established strong integrated management system and holds ISO 9001, ISO 14001, ISO 45001 and EFfCI GMP certifications.

### SUSTAINABILITY

**BENTONE ULTIMATE CCC** is a raw material approved under the RSPO Mass Balance system.



RSPO - 1106301

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