

BENTONE HYDROLUXE™ 360

Non-animal Origin Rheological Additive For Aqueous Cosmetics And Toiletries

GENERAL INFORMATION

BENTONE HYDROLUXE™ 360 is an all-in-one clay based emulsifying and stabilizing additive for the creation of O/W emulsions. It imparts thixotropic viscosity and good suspension and heat stability to the water phase of cosmetics.

The balanced composition of mild emulsifying agents, consistency enhancers and natural stabilizers provide easy handling, low development effort and reliable results with high batch-to-batch consistency.

The Hectorite clay allows for the creation of stable emulsions with a light touch and pleasant skin feel. Additional stabilizers like carbomers are not required to achieve stable emulsions.

INCI NAME

Glyceryl Stearate Citrate (and) Cetearyl Alcohol (and) Hectorite (and) Xanthan Gum (and) Glyceryl Behenate

CHEMICAL & PHYSICAL PROPERTIES

Appearance	Beige Pellets
HLB Value	approx. 12
Melting Point (°C)	60-70

These are typical properties not to be used for specification purposes

APPLICATIONS

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

KEY PROPERTIES

- Natural emulsifying and thickening
- Pellet format allows easy dosage, easy storage and high batch-to-batch consistency
- 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
- Can be used with all kinds of cosmetic oils, eg. natural oils, esters, silicone oils, alkanes
- Imparts a smooth silky feel to cosmetics and personal care products
- Allows an oil phase volume of 10-35%
- SPF boosting has been observed in formulations containing Hectorite clay

INCORPORATION

BENTONE HYDROLUXE™ 360 additive is easy to process.

- Add **BENTONE HYDROLUXE™ 360** to the oil phase and heat to 75°C with agitation to ensure uniform dispersion. The water phase should be heated separately to 75°C. The oil phase can be added to the water phase either with propeller mixing followed by homogenization for 10-15 minutes, depending on the batch size, or the oil phase can be added directly to the water phase with homogenization. The emulsion can then be transferred to a propeller stirrer and cooled to room temperature. Heat sensitive ingredients can be added after cooling.
- Adjustment of pH can be done at temperatures below 35°C. The pH of the final emulsion can be 5.5-8.0.
- **BENTONE HYDROLUXE™ 360** can also be added to the water phase and heated to 75°C, mixed then the oil phase added.
- The final viscosity of the emulsion will develop overnight, or within a few hours.

continued...

BENTONE HYDROLUXE™ 360

LEVELS OF USE

The typical use level of **BENTONE HYDROLUXE™ 360** are 5.0% based on total system weight for a lotion and cream and up to 7% for pastes, cleansing products and thicker balms.

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 cool, dry place. **BENTONE HYDROLUXE™ 360**.

QUALITY ASSURANCE

Quality and continuous improvement are paramount to our business.

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.

© Copyright 2023, Elementis Specialties, Inc. All rights reserved. Copying and/or downloading of this document or information therein for republication is not allowed unless prior written agreement is obtained from Elementis Specialties, Inc.

™ Trademark of Elementis Specialties, Inc.

April 2023

North America

Elementis
469 Old Trenton Road
East Windsor, NJ 08512, USA
Tel.: +1 609 443 2500
Fax: +1 609 443 2422

Europe

Elementis UK Ltd.
c/o Elementis GmbH
Stolberger Strasse 370
50933 Cologne, Germany
Tel.: +49 221 2923 2066
Fax: +49 221 2923 2011

Asia

Deuchem (Shanghai) Chemical Co., Ltd.
99, Lianyang Road
Songjiang Industrial Zone
Shanghai, China 201613
Tel.: +86 21 5774 0348
Fax: +86 21 5774 3563