

RHEOLUXE® 811

Non-animal Origin Rheological Additive For Aqueous Cosmetics And Toiletries

GENERAL INFORMATION

RHEOLUXE 811 is a high efficiency polyurethane thickener developed for use in aqueous systems.

RHEOLUXE 811 is readily dispersible in water and water/organic mixtures. It has been especially designed for use in anhydrous formulations, where water is added at point of use.

RHEOLUXE 811 is also particularly useful in emulsions and can be used in "cold process" systems. It is a non-ionic thickener, which provides shear thinning viscosity control of the emulsion's and improves application properties.

RHEOLUXE 811 is an alternative to traditional cellulose-based, polyacrylic and other urethane thickeners for stabilising emulsions.

INCI NAME

Steareth-100/PEG-136/HDI Copolymer

CHEMICAL & PHYSICAL PROPERTIES

Color / Form	White Powder
Active Matter	99 – 100%
Cloudpoint (1% in water)	70 - 80°C
Melting Point	53 - 63°C
Viscosity (2% in water)	100 – 1000mPa.s.

These are typical properties not to be used for specification purposes

APPLICATIONS

- Powder Products
- Make-up Products
- Creams/Ointments
- Hair Preparations
- Sunscreens

KEY PROPERTIES

Non-animal origin

Rheological control

- Predictable, reproducible and stable viscosity control

- Shear-thinning viscosity
- Excellent suspension of pigments and actives
- Smooth and even application
- Emulsion stabilization [

Convenience

- Easy to disperse in water or can be incorporated into the mill base
- Disperse in water with high speed mixing, then add to formulation
- 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
- Toxicologically safe ingredients

INCORPORATION

RHEOLUXE 811 additive is a shear-thinning powder product. **RHEOLUXE 811** can be added at any convenient suitable stage during the manufacturing cycle.

If **RHEOLUXE 811** is added to the water phase, it should be mixed until homogenous before adding any other ingredients. Alternately, it can be added at the end of the manufacturing process after emulsion has been formed and cooled.

LEVELS OF USE

The level of use of the **RHEOLUXE 811** will depend on the formulation. Typical addition levels are 0.2 – 3.0%.

COMPATIBILITY

RHEOLUXE 811 additives can contribute greatly to a formulation's stability. Care should be taken to determine the compatibility of the

RHEOLUXE 811 additive with the actives, solvents or surfactant ingredients within a formulation.

continued...

RHEOLUXE® 811

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 area away from excessive heat.

SHELF LIFE

RHEOLUXE 811 has a minimum shelf life of 3 (three) 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.

© Copyright 2018, 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.

May 2018

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