

A Detailed Overview of Durosoft PG10CY-MB

Durosoft PG10CY-MB is a 100% natural, PEG-free, RSPO-MB certified solubiliser and non-ionic foam booster that's perfect for brands looking for a high-performance, eco-friendly alternative to synthetic ingredients. It offers effective fragrance solubilisation and enhanced foam in personal care formulations.

Durosoft PG10CY-MB is a naturally derived, non-ionic solubiliser made from caprylic acid. It is designed to support eco-friendly, high-performance personal care formulations. Its ability to incorporate water-insoluble ingredients like fragrance oils into aqueous formulations helps create a stable and transparent mix to ensure active ingredients are evenly distributed.

One of its stand out features is its balance of mildness and effectiveness, making it ideal for sensitive skin and hair care applications. Durosoft PG10CY-MB also adheres to RSPO standards, supporting sustainable palm sourcing and ensuring that formulators can meet increasing consumer demand for environmentally responsible products.

This solubiliser performs effectively in cold and hot processes, providing critical production flexibility. Its ability to solubilise natural oils into water-based formulations creates clear, stable solutions, making it an invaluable tool for formulators seeking to craft transparent, high-performance products without synthetic surfactants. It perfectly aligns with the industry's movement towards clean beauty and supports the growing demand for natural, sustainable formulations.

- » INCI: Polyglyceryl-10 Caprylate
- » Appearance: Amber syrup
- » HLB: 16-17
- » Average molecular weight: 684.93 gmol-1
- » Usage Level: Solubiliser 5-10% / Foam Booster 1-5%
- » Inter-facial Tension: <2.5 mN/m
- » CMC: 0.066 mg/ml
- » Non-ionic surfactant - flash foaming agent
- » Fragrance and essential oil solubiliser
- » Safe for use in oral care products (3% inclusion)
- » Dermatologically tested



The Benefits of Formulating With Durosoft PG10CY-MB

Hydrophilic

Due to its hydrophilic nature, Durosoft PG10CY-MB seamlessly integrates into the water phase of formulations. This characteristic ensures that it blends effortlessly with water based components, enhancing the overall stability and consistency of the product. By being part of the water phase, Durosoft PG10CY-MB aids in creating formulations that are smooth, effective, and visually appealing.

Hydrophilic Surfactant Head

Durosoft PG10CY-MB features a hydrophilic surfactant head combined with a decaglycerol structure, enhancing its moisturising and mild properties. This unique combination ensures that products formulated with Durosoft PG10CY-MB are gentle on the skin, making them ideal for sensitive skin types. The moisturising properties provide long lasting hydration, contributing to personal care products overall effectiveness and appeal.

C8/10 Chains

The C8/10 chains in Durosoft PG10CY-MB contribute to its low surface tension, resulting in flash foaming and superior cleansing capabilities. These chains also ensure excellent mobility and compact packing at surfaces, which is crucial for the stability and performance of the final product. This makes Durosoft PG10CY-MB highly effective in formulations designed for quick and thorough cleansing.

Caprylic Chains

Durosoft PG10CY-MB contains caprylic chains that enhance spreadability and slip, making formulations easier to apply and more effective in delivering active ingredients. These chains are also rich in anti-oxidants, which help protect the skin from environmental stressors and help maintain a healthy, youthful appearance.

The caprylic chain in Durosoft PG10CY-MB also ensures a reduced inter-facial tension, enhancing the delivery and effectiveness of formulations. This characteristic makes Durosoft PG10CY-MB an excellent choice for products that require efficient and uniform distribution of actives, such as serums and treatments.

Improved Hydration

One of Durosoft PG10CY-MB's stand out benefits is its ability to aid skin hydration. By drawing moisture into the skin and retaining it, Durosoft PG10CY-MB ensures long lasting hydration, essential for maintaining a healthy and vibrant complexion. This characteristic is particularly beneficial for formulations aimed at dry or dehydrated skin.

RSPO-MB

Durosoft PG10CY-MB is made from 100% natural, sustainable fatty acids, adhering to RSPO-MB (Roundtable on Sustainable Palm Oil - Mass Balance) standards. This commitment to sustainability ensures that Durosoft PG10CY-MB delivers high performance and aligns with eco-friendly practices, making it a responsible choice for conscientious brands and consumers.

Low CMC

The Low Critical Micelle Concentration (CMC) of Durosoft PG10CY-MB helps to boost its cleansing and stability capabilities. This property ensures that formulations made using Durosoft PG10CY-MB produce rich, luxurious foam and provide thorough cleansing, enhancing the products overall sensory experience and effectiveness.

