

L407

Eco-Friendly Non-Ionic Emulsifier

Product Description

L407 is an eco-friendly non-ionic emulsifier that is completely free of APEO. It effectively reduces both static and dynamic surface tension within water-based substrates, offering outstanding dispersing, emulsifying, and wetting capabilities. Furthermore, it improves the freeze-thaw stability and chemical stability of emulsions while delivering exceptional wetting and color development properties.

Product Features

- Strong Compatibility:** Demonstrates excellent blending compatibility when formulated alongside anionic, cationic, and other non-ionic surfactants without causing precipitation or stratification. It works synergistically to elevate the overall emulsification, wetting, and dispersing performance of the formulation system.
- Environmentally Friendly:** Readily biodegradable and fully compliant with environmental protection standards.
- Excellent Hard Water Resistance:** Maintains a stable emulsification effect even in hard water environments, successfully preventing emulsion demulsification or breaking triggered by high water hardness.

Technical Specifications*

Model	EO Number (approx.)	Appearance (25°C)	Color (Hazes/Pt-Co)	Cloud Point (°C)	Moisture Content (%)	pH (1% H ₂ O)	HLB Value

L407	40	Liquid	< 30	> 90°	28 - 32	5.0 - 7.0	18.0
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Cloud Point Test Methods Reference:

- **[A]:** 5g of surfactant dissolved in 45g of diethylene glycol butyl ether solution (at a concentration of 250g/L).
- **[B]:** 1g of surfactant dissolved in 100g of deionized water.
- **[C]:** 1g of surfactant dissolved in 100g of sodium chloride solution (at a concentration of 50g/L).

*Note: *The properties listed above represent typical results only and should not be construed as product specifications. Please refer to the specific Certificate of Analysis (COA) for official specifications.*

Storage

Please store this product in a cool, dry place away from direct sunlight. The storage temperature should be maintained between 5°C and 35°C, keeping the original packaging completely intact. The product has a shelf life of six months from the date of manufacture. If the product exceeds its shelf life, a performance evaluation is highly recommended before actual use. Once the packaging is opened, it is recommended to filter the liquid properly before application and consume it as quickly as possible.

Disclaimer

Shandong Sanjia Polymer Material Co., Ltd. strongly recommends that customers handle and use this product safely and rationally in accordance with the detailed information provided in the Material Safety Data Sheet (MSDS). While we believe the recommendations and data contained herein are true and reliable, the contents of this Technical Data Sheet are provided for reference purposes only. We offer no warranties, whether express or implied, regarding product characteristics, applications, quality, safety, product specifications, merchantability, or fitness for a particular purpose.

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