

Suspending and Stabilizing Agent



Product Bulletin

EMUL 36

INCI Name

Acrylates Copolymer

Description

EMUL 36 is an excellent rheology modifier. It is anionic slightly cross-linked acrylic polymer, alkali-swellaable emulsion. It contributes to excellent suspending, thickening and emulsifying ability in personal care products. EMUL 36 is a low-viscosity, easily-used and water soluble white emulsion. It provides superior salt tolerant ability in formula, it's compatible with anion and nonionic surfactants. With high yield value, insoluble substances suspension ability, strong anti-shear ability and anti-oxidize ability especially at the pH of 4-6, it provides excellent transparency in transparent formula and strengthens pearlescent effect in pearly formula. Meanwhile, it meets the requirement of NO PARABEN and NO PERSERVATIVE.

Specification

Parameter	Value
Appearance	Milky emulsion
Solid content (%)	32±1.5
pH value (25℃)	2.2-3.8
Viscosity (2.5% solid content solution, pH=6.6-6.7, 25℃, mPa.s)	5000-11000
Turbidity (2.5% solid content solution, pH=6.6-6.7, NTU)	≤20
Residual ethyl acrylate	≤1ppm

*These values indicate typical specifications, they are not intended to be used as product specifications.

Properties

- Non associating rheology modifier
- Excellent at suspending silicone, zinc pyrithione, powder and other insoluble ingredient in shampoo
- Applicable for transparent systems
- Applicable for highly-transparency surfactant formula at the pH of 4-6

Applications

- Transparent shampoo, body wash, facial cleaning products or particle-contained products

- Pearly shampoo, pearly body wash and other cleansers
- Conditioning products with big particle size or high molecular weight ingredients such as: conditioning shampoo, anti-dandruff shampoo and moisturizing body wash
- Foundation cream/lotion
- Sunscreen cream/lotion
- Formula with Alcohol, Glycol, Isopropanol, Propylene Glycol and Glycerol
- Hair dye

Formula Guidelines

Recommended usage: 3.0-10.0%

- Guideline in emulsify-system formula:
Add EMUL 36 to water at room temperature, then add other ingredients, heating it to 70~80℃. Mix oil phase at another container, and heating it to needed temperature. Then add the oil phase to water phase, emulsifying them evenly. Add neutralizer to adjust pH to 7. Lastly stir it to cool down to 40℃ and add preservative.
- Guideline in shampoo, body wash and other cleansers:
Add EMUL 36 to water, then add surfactant such as AES, stir it to fully soluble. Add alkali to adjust pH of solution to 6.5-7.0. Add other ingredients of formula, stir it evenly. Lastly adjust pH and viscosity to a proper range.

Storage and Handling

Standard Packing: 60kg/drum

Storage: keep in cool, dry, ventilated and lightless place.

Notice: Keep away from freezing. Storage temperature: 5-35℃, temperature below 5℃, the product may coagulate.

Shelf life:12months

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