

Amodimethicone

Specification Sheet

Description: Milky, white silicone emulsion (amino-modified polydimethylsiloxane emulsion) offering excellent conditioning & softening properties.

CAS: 7732-18-5, 68554-54-1, 24938-91-5, 112-02-7

INCI Name: Water, Amodimethicone, Trideceth-12, Cetrimonium Chloride

Composition: Water, Amodimethicone, Trideceth-12, Cetrimonium Chloride

Appearance: White, opaque liquid

Benefits:

- Partial water dispersible silicone emulsion for use in hair conditioners, hair spritzes and styling products
- Protects the hair shaft, moisturizes hair, gives softness and shine
- Adds a silky feel to skin care creams and reduces greasiness

Use: Typical use level is 1-15%, add to water phase of formulas. Can also be mixed into emulsions after the temperature dropped to 50°C/125°F. For external use only.

Applications: Hair & skin conditioning products as shampoos, conditioners, creams, lotions.

Solubility: Soluble in water, soluble in alcohol

Preservation: DMDM Hydantoin

Storage: Store in a closed container at a dry place at room temperature

Country of Origin: USA

Raw material source: Dimethyldichlorosilane and water

Manufacture: Amodimethicone is an amine-functionalized silicone made from dimethicone where the methyl groups along the backbone are replaced with alkylamine groups which become positively charged in aqueous solutions yielding a cationic polymer. Dimethicone is made from dimethyldichlorosilane which is produced by powdered silicon (silicon dioxide) and methyl chloride. Dimethyldichlorosilane is then hydrolyzed to give a

hydrolysate of polysiloxanes. In a polymerization reaction with water the polysiloxanes are then polymerized to linear silicone polymers with different chain length (dimethicones).

Animal Testing: Not animal tested

GMO: GMO-free (does not contain plant-derived components)

Vegan: Does not contain animal-derived components

HS Code: 3402130000