

# 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:** Trideceth-12, cetrimonium chloride

**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

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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

**Proposition 65:** WARNING: This product can expose you to chemicals including ethylene oxide and 1,4-dioxane, which are known to the State of California to cause cancer or reproductive toxicity. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)