

## Polyether silicone oil RH-108

**INCI:** PEG-12 Dimethicone

**Features:**

- Small dosage
- To be a humectant and emollient for personal care
- Be compatible with various personal care products ingredients.
- Emulsifier,surface tension inhibitor.
- Hair styling products resin plasticizer,wetting agent,to make the hair more slippery and softer
- Foaming agent.

**Parameter:**

Item	Standard
Appearance	Colorless transparent liquid
Viscosity(25°C, mm <sup>2</sup> /s)	200-400

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Density (25°C)	1.07
Cloud point (1%wt, °C)	95-100
Surface tension (25°C, 0.1%, mN/m)	26-30

**Application:**

1. Used as a component of glass cleaner, the minimum dosage of RH-108 is 0.5%-2.0% of the formulations.
2. Used in personal care products:

Table 1. The recommended dosage of RH-108 used in personal care products:

Personal care products	Effect	Dosage%
Hair spray	Gloss, nonstick, typing	0.1-1.0
Shampoo	Easy to comb, silky feel	1.0-5.0
Shaving emulsion	Soft and smooth	1.0-3.0
Shaving aerosol foam	Soft, wettability, foam stability	0.2-2.0
Lotions	Soft and smooth, wettability	0.1-2.0
Perfume, cologne	Moist, good handle	0.1-0.5

TABLE 2: The compatibility of RH-108 and personal care products ingredients :

Water	C
Ethanol (70%)	C



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Octadecyl alcohol	C
Beewax	I
Glycerol	I
IPM	C
Lanolin	I
Mineral oil	I
Paraffin oil	I
Stearic acid	C
Polydimethylsiloxane, 350 cSt	I

Room temperature, C: Compatible, I: Partial compatible or not compatible.

**Package and Storage:**

- ✧ The product should be stored in a clean, sealed container, avoiding contact with acids, alkalis and other impurities, and not exposed to open flames.
- ✧ The product should be sealed and stored in a dry and cool place after storage. The shelf period is 12 months. If over the shelf period, it should be re-tested before us.
- ✧ Packed in 20L, 200L metal pail. Other requirements needs to be negotiated.

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## **DISCLAIMER**

The technical parameters provided in this paper are all typical values for reference only. They are not regarded as product acceptance standards and are subject to change without notice. Due to the difference of use conditions, we can not guarantee the effect and applicability of the product under all circumstances, and we will not be liable for any direct, indirect or accidental losses arising therefrom. Users shall conduct relevant tests or consult our technical personnel before using the product.

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