SILICONE EMULSION

Product Bulletin

TC-3017

INCI Name

PEG-10 Dimethicone

Description

TC-3017 is an emulsifying silicone fluid. It is a linear, polyether-modified silicone. This emulsifying silicone features emulsions W/Si or W/O, liquid formulations, and has good compatibility with silicones, organic oils, and esters. It is easy to formulate and can be applied in hot process and cold process. It is used for skin care , make-up and pigment dispersant applications.

Specification

Parameter	Value
Appearance	Colorless to light yellow Transparent liquid
Specific gravity(25℃)	0.98-1.03
Viscosity(25℃,mpa.s)	600-1300
Refractive index(25℃)	1.4160-1.4240
Dry residue (105℃,2h,%)	≤5.0
HLB(calculated)	4.5

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

Properties

- Emulsions W/Si or W/O
- Good compatibility
- Can be applied in hot process and cold process

Applications

- Skin care
- Make-up
- Pigment dispersant

Solubility/compatibility

Test done at 20% of concentration	
Water	I
Ethyl alcohol	S
Propylene glycol	S
Isopropyl alcohol	S
1,3 butylene glycol	S
Glycerin	I
Cyclopentasiloxane	I
Dimethicone	S
Mineral oil	PS
Isotridecyl isononanoate	S
Caprylic/capric triglyceride	PS
Hydrogenated polydecene	PS
Squalane	PS
Isohexadecane	PS
Octyl methoxycinnamate	PS
IPM	PS
Triethylhexanoin	S

S:Soluble；I：Insoluble；PS：Partially soluble

Formula Guidelines

Typically used at a level of 0.1~10%

Add into system in final step under 45℃, then mix well.

Further information can be derived from Technical & Service Department of TINCI.

Storage & Handling

Standard Packing: 18kg/drum

Storage: When stored in its original unopened packaging, at a temperature of less than 25℃.

Shelf life: 24 months