Technical Data Sheet

www.silfluosilicone.com

Silfluo LS-P60

Phenylsilsesquioxane

Description:

Silfluo LS-P60 is a Polyphenylsilsesquioxane fluid, an oligomeric phenylsilsesquioxane resin supplied as a solution.

The polymer contains trifunctional phenylsiloxy ($PhSiO_{1.5}$) repeat units forming a partially condensed three-dimensional siloxane network.

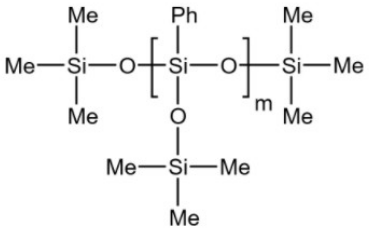
The high phenyl content raises refractive index, improves film gloss, and contributes thermal and oxidative stability relative to dimethylsilicone analogs.

Used as film-former, sensory modifier, and optical enhancer in personal care formulations including hair care, color cosmetics, sun care, and skin care.

INCI name: Phenylsilsesquioxane.

Performance equivalent to Wacker Belsil SPR 45 VP and Gelest SST-3P01.

Typical Technical Properties

Silfluo Code:	LS-P60
Chemical Name:	Phenylsilsesquioxanes
INCI Name:	Phenylsilsesquioxane (or Polyphenylsilsesquioxane)
CAS No. :	73559-47-4(70131-69-0)
EINECS No. :	615-071-9
Molecular Formula:	$(C_6H_5SiO_{1.5})n$ (Polymeric)
Appearance:	Colorless transparent fluid
Active Content (Phenylsilsesquioxane)	35 - 40%
Density (20°C, g/cm3):	0.97 -0.99
Viscosity (mm²/s):	15-30
Refractive Index (nD 20°C):	1.4549-1.4626
Flash Point (closed cup):	>100°C
Chemical Structure:	

m=1, 2, 3

Applications:

1. Hair care and styling

Used as shine-enhancing and protective film-former in hair serums, gloss sprays, and conditioning treatments.

2. Color cosmetics

The offered information of this docs is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are fully satisfactory for end use. Suggestions of use shall not be taken as inducements to infringe any patent. Please confirm with us prior to any problems.

Used as film-former and pigment dispersion aid in lipsticks, liquid foundations, and concealers.

3. Sun care formulations

Used as waterproofing agent and sensory modifier in sunscreen and after-sun formulations.

4. Skin care

Used as film-former and sensory modifier in anti-aging creams, body lotions, and protective skin care formulations.

Packing

In 1kg fluorinated bottle, 200kg drum and 1000kg IBC.

Safety and Storage

Store in a cool, dry, well-ventilated place away from direct sunlight, heat, and open flames. Keep containers tightly sealed.

Shipped as non-hazardous substance.

Shelf life: 12 months minimum from manufacture date in original unopened containers.

The offered information of this docs is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are fully satisfactory for end use. Suggestions of use shall not be taken as inducements to infringe any patent. Please confirm with us prior to any problems.