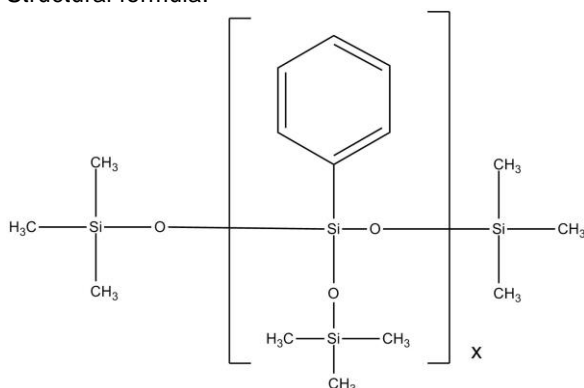


BELSIL® PF 22

PHENYLTRIMETHICONE

Product description

Structural formula:



BELSIL® PF 22 is a phenyl-modified polydimethylsiloxane characterized by having a higher refractive index than dimethicone fluids (1.38-1.40). It offers significant improvements in regards to gloss and shine. It is typically used as a gloss agent in hair and color cosmetics.

BELSIL® PF 22 is not available and suitable to be used in Japan due to temporary patent restrictions.

Application

BELSIL® PF 22 is used in all kinds of cosmetics

formulations, but mostly in hair care compositions and color cosmetics due to its shine-enhancing benefits. It can also reduce the tackiness and stickiness of organic ingredients in formulations such as sun care formulations and hair sprays. It is also used as an emollient in skincare products.

Storage

Further information for storage:
Store in a dry and cool place.

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

Product data

Typical general characteristics	Inspection Method	Value
Appearance and color		clear liquid
Viscosity, kinematic at 25 °C	DIN 51562	15 - 30 mm ² /s
Refractive index at 25 °C		1,459
Density at 25 °C, at 1013 hPa	DIN 51757	0,978 g/cm ³
Flash point	ISO 2719	133 °C
INCI name		Phenyltrimethicone

These figures are only intended as a guide and should not be used in preparing specifications.

Compatibility BELSIL® PF 22

Compatibility evaluated using 90/10 blend of solvent/phenylfluid at RT (23°C)

Type of solvent	INCI	Result
Mineral Oil	Mineral Oil	C
	Isopropyl Myristate	C
	C12-15 Alkyl Benzoate	C
Ester Oils & Emusifiers	Decyl Oleate	C
	Cocoglycerides	C
	Sorbitan Trioleate	C
	Polyglyceryl-2 Sesquiosostearate	C
Triglycerides	Olea Europaea (Olive) Fruit Oil	C
	Ricinus Communis (Castor) Seed Oil	NC
	Triticum Vulgare (Wheat) Germ Oil	C
	Prunus Armeniaca (Apricot) Kernel Oil	C
	Prunus Amygdalus Dulcis (Sweet almond) Oil	C
UV-Filters	Ethylhexyl Metoxycinnamate	C
	Ethylhexyl Salicylate	C
Alcohols & Water	Glycerin	NC
	Isopropanol	C
	Ethanol	C
	Water	NC
Silicone Fluids	Cyclopentasiloxane	C
	Disiloxane (BELSIL® DM 0.65)	C
	Dimethicone (BELSIL® DM 1 Plus)	C
	Dimethicone (BELSIL® DM 10)	C
	Dimethicone (BELSIL® DM 350)	C
	Trimethylsiloxyphenyl Dimethicone (BELSIL® PDM 20)	C
	Trimethylsiloxyphenyl Dimethicone (BELSIL® PDM 1000)	C
C = Clear (miscible)		
SH = Slightly Hazy		
H = Hazy		
NC = Not Compatible		

Compatibility BELSIL® PF 22

Compatibility evaluated using 50/50 blend of solvent/phenylfluid at RT (23°C)

Type of solvent	INCI	Result
Mineral Oil	Mineral Oil	C
Ester Oils & Emusifiers	Isopropyl Myristate	C
	C12-15 Alkyl Benzoate	C
	Decyl Oleate	C
	Cocoglycerides	C
	Sorbitan Trioleate	C
	Polyglyceryl-2 Sesquiosostearate	C
Triglycerides	Olea Europaea (Olive) Fruit Oil	C
	Ricinus Communis (Castor) Seed Oil	NC
	Triticum Vulgare (Wheat) Germ Oil	C
	Prunus Armeniaca (Apricot) Kernel Oil	C
UV-Filters	Prunus Amygdalus Dulcis (Sweet almond) Oil	C
	Ethylhexyl Metoxycinnamate	C
	Ethylhexyl Salicylate	C
Alcohols & Water	Glycerin	NC
	Isopropanol	C
	Ethanol	C
	Water	NC
Silicone Fluids	Cyclopentasiloxane	C
	Disiloxane (BELSIL® DM 0.65)	C
	Dimethicone (BELSIL® DM 1 Plus)	C
	Dimethicone (BELSIL® DM 10)	C
	Dimethicone (BELSIL® DM 350)	C
	Trimethylsiloxyphenyl Dimethicone (BELSIL® PDM 20)	C
	Trimethylsiloxyphenyl Dimethicone (BELSIL® PDM 1000)	C
C = Clear (miscible)		
SH = Slightly Hazy		
H = Hazy		
NC = Not Compatible		

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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