

<b>Description</b>	<p><b>C.T.F.A. / I.N.C.I. Name: PEG-12 DIMETHICONE</b></p> <p><b>CAS N° 68937-54-2</b></p> <p><b>MIRASIL PEG 12 DM</b> is a water soluble polyether modified polysiloxane used as emollient for personal care. In addition this product may be used as foam booster, emulsifier, plasticizing agent and wetting agent for personal care products.</p>
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<b>Examples of applications</b>	<p>Suitable for a wide range of applications in personal care products including :</p> <ul style="list-style-type: none"> <li>• Bath and shower products.</li> <li>• Hair treatments and hair styling products.</li> <li>• Shampoos and rinse-off conditioners.</li> <li>• Skin care products – facial and body care products, make-up removers.</li> <li>• Color cosmetics – foundations, BB creams.</li> <li>• Shaving foams and gels</li> </ul>
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<b>Key benefits</b>	<ul style="list-style-type: none"> <li>• Improves foam of bath products.</li> <li>• Enhances silky skin feel.</li> <li>• Light conditioning effect improving wet&amp;dry combing.</li> <li>• Emulsifier for fragrances and essential oils or pigments.</li> <li>• Second surfactant for sensitive product.</li> <li>• Provides surface tension reduction.</li> <li>• Provides lubricity to hair and skin.</li> </ul>
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Typical properties	MIRASIL PEG 12 DM
Appearance	Clear liquid
Viscosity NF T 76102	500 mPa.s
Dry content	>97 %

Appearance.....	Clear liquid
Colour.....	Colorless to yellow
Viscosity, at 25°C, mPa.s.....	200 to 800
Specific gravity at 25°C, g/cm <sup>3</sup> , approx.....	1.080
Refractive Index, 25°C, approx.....	1.457
HLB (calculated), approx.....	14
Flash point (closed cup), °C.....	> 100
Cloud point (4% in distilled water), °C, approx.....	90
Dry content, %.....	> 97
D4 content, % .....	< 0.1

### Solubility of MIRASIL PEG 12 DM with various cosmetic ingredients

# MIRASIL PEG 12 DM

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TYPE OF MATERIAL	1/10*	1/1
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Water	S	S
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HYDROCARBONS	1/10*	1/1
Mineral oil	I	I
Isododecane	I	I

ALCOHOLS & GLYCOLS	1/10*	1/1
Ethanol	S	S
Glycerol	I	I
Propylene glycol	S	S
Isopropyl Alcohol	S	S

OILS	1/10*	1/1
Jojoba oil	I	I
Almond oil	I	I
Castor oil	I	I
Lanolin oil	I	I

WAXES	1/10*	1/1
Carnauba wax	I	I
Beeswax	S	I
Paraffin wax	I	I

FATTY ALCOHOLS / ACIDS	1/10*	1/1
Stearyl alcohol	I	I
Stearic acid	S	I

ESTERS	1/10*	1/1
Isopropyl myristate	I	I
Isopropyl palmitate	I	I
Caprylic triglycerides	I	I

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SILICONES	1/10*	1/1
MIRASIL CM5 (Cyclopentasiloxane)	I	I
MIRASIL DM 350 (Dimethicone high viscosity)	I	I
MIRASIL DMCO (PEG/PPG 22/24 Dimethicone)	I	I
MIRASIL ADMH 395 (Propoxytetramethylpiperidiny dimethicone)	I	I
MIRASIL C-DMP (Cyclopentasiloxane(and)PEG/PPG 18/18)	I	I

\* = 10% of MIRASIL PEG 12 DM and 90% of tested material

S = Soluble

I = Completely or partially insoluble

Please note: The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.

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**Instruction of use** For more information, please download the TDS available in PDF format below.

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**Packaging**

- MIRASIL PEG 12 DM is available in
  - Drum of 120 KG (264.6 LB)

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**Storage and shelf life** When stored in its original packaging:  
MIRASIL PEG 12 DM may be stored at a temperature between 2 °C/ 36 °F and 40 °C/ 104 °F for up to 18 months from its date of manufacturing.  
Comply with the storage instructions and expiration date marked on the packaging. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.

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**Regulation** Please consult your local ELKEM SILICONES sales office.

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**Limitations** Please consult your local ELKEM SILICONES sales office.

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**Safety** Please consult the Safety Data Sheet of:  
MIRASIL PEG 12 DM

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Visit our website [www.silicones.elkem.com](http://www.silicones.elkem.com)

Warning to the users

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