

Natural Facial Cleansing Gel

L004-01.11-707

Claims: **PEG-free transparent oil gel**
 Emulsify by contact with water
 Removable without oily residues on the skin



Phase	Ingredient	INCI	Supplier	%
A	dermofeel® G 5 O	Polyglyceryl-5 Oleate	Dr. Straetmans	6.00
	Glycerol (anhydrous)	Glycerin	Merck	15.00
B	Miglyol 810	Caprylic/capric Triglycerides	Sasol	31.50
	Olive Oil (extra verg.)	Olea Europaea (Olive) Fruit Oil		45.87
	dermofeel® Toco 70 non-GMO	Tocopherol, Helianthus Annuus (Sunflower) Seed Oil	Dr. Straetmans	0.20
C	Deionised Water	Aqua		app. 1.43
				100.00

Manufacturing Procedure:

1. Premix **dermofeel® G 5 O** and Glycerol under stirring and light heating until a homogeneous gel results.
2. Add oil phase B to phase A at room temperature stepwise and in small portions under forced stirring. Before addition of the next portion each step should be stirred very well until a homogenous gel results. Viscosity will increase after each addition.
3. After addition of the oil phase adjust viscosity and refractive index with water.
4. De-air the product.

Specification Values:

Appearance: Clear yellow viscous gel.

Viscosity (Brookfield: LV4; Speed 10): Approx. 60 000 mPas.

Centrifuge (15 min., 4000 rpm): No separation.

Stability:

More than 3 months stable at 20 °C and 4 °C, some turbidity at 40 °C after 6 weeks.

Additional Note:

The first step in formulating an oil gel is always to dissolve the emulsifier **dermofeel® G 5 O** in a polar medium, preferably Glycerol. Then stepwise addition of oil at room temperature under forced stirring follows. In this procedure the oil gel is formed.

It is very important to add the oil stepwise and very slowly to allow the system to form the gel without too much oil at once. 1/10 oil weight to glycerol weight is recommended for the first 5 – 10 increments. Later on the amount of oil for each portion can increase.

After the oil has been added completely, adjustment of viscosity and / or transparency can be done by addition of water. For transparent products the refractive indexes of the oil phase and the water phase have to be almost the same (difference > 0,005).

Disclaimer:

The information contained herein is meant to demonstrate how our products can be used. The given data are suggestions without any guarantee aimed to support customers' development. As production conditions at our customers' facilities are beyond our control we refuse to accept any liability involved in the use of our products. Please observe possible third party patent rights.