

Gilugel® MIN

Rheological Additive for Cosmetic Formulations

INCI Name: Mineral Oil [and] Aluminum/Magnesium Hydroxide Stearate

General

The quality of an emulsion is primarily determined by the composition of the oil phase. The oils and esters used, particularly for W/O emulsions, should be chosen for their suitability to the application area. For light emulsions it is recommended to use light oils and esters with good spreadability. Emulsions are normally stabilised with waxes, which tend to have an unpleasant, sticky skin feel. Stabilising emulsions with Gilugel® avoids this problem.

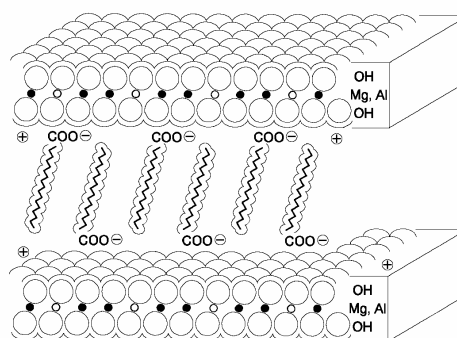
Gilugel® MIN acts in the oil phase, as an emulsion stabiliser and thickener. Application levels between 5 and 15% are recommended, depending on the viscosity required.

What Gilugel® MIN is

Gilugel® MIN is a gel based on the inorganic pharmaceutical active, Hydrotalcite, gelled in mineral oil.

Composition

Aluminium-Magnesium-Hydroxide-Stearate:	17 - 23 %
Al	0,9 - 1,2 %
Mg	2,4 - 3,2 %
Water	max. 2 %
Density	0,85 - 0,95 %
Heavy Metals (as Pb)	max. 30 ppm
Mineral Oil	78 - 80 %
Solubility	insoluble in water



Packaging

25 kg pails with lids

Storage and Shelf life

The material is stable for 3 years when stored at room temperature in the original, unopened containers.



Raw Materials/ Trade name	INCI name	w/w [%]
A. Gilugel® MIN (1)	Mineral Oil (and) Aluminum/Magnesium Hydroxide Stearate	7,50
Gilugel® IPP (1)	Isopropyl Palmitate (and) Aluminum/Magnesium Hydroxide Stearate	7,50
Imwitor 780 K (2)	Isostearyl Diglyceryl Succinate	5,00
Paraffinum subliquidum	Mineral Oil	5,00
B. Water		75,00
Preservatives		q.s.
Perfume		q.s.

Raw Materials / Trade name	INCI name	w/w [%]
A. Gilugel® MIN (1)	Mineral Oil (and) Aluminum/Magnesium Hydroxide Stearate	15,00
Jojoba Oil	Jojoba Oil	15,00
DC-345-Fluid (3)	Cyclomethicone	3,00
Syncrowax HGLC (4)	C 18/36 Acid Triglyceride	1,00
Croduret 7 (4)	PEG 7 Hydrogenated Castor Oil	5,50
Cithrol EM 0844 (4)	Glyceryl Sorbitane Oleostearate	2,50
B. Demin. Water		53,30
Vitamin E-acetat		1,00
Propylenglycol-1,2	Propylene Glycol	2,00
Magnesium Sulfate	Magnesium Sulfate	0,70
C. Panthenol 50 P (5)	Panthenol (and) Propylene Glycol	1,00
Preservatives		q.s.
Perfume		q.s.

Oil Separation

Gilugel® is filled into pails at ca. 80°C. On cooling, the gel contracts and small amounts of oil are forced out of the gel structure. This does not negatively influence the product quality, but should be taken into account when using the material.

W/O - Emulsion C 08

Gilugel® MIN acts as a stabiliser and viscosity regulator in this formulation .

Procedure

Heat phase A and phase B to 80°C and afterwards emulsify phase B to phase A under homogenisation. Cool gently to room temperature.

Suppliers

- 1)BK Giulini
- 2)Hüls

Baby Cream W/O C 09

Gilugel® MIN acts as a stabiliser and hydrophobic agent in this formulation.

Procedure

Heat phase A and phase B separately to 75°C. Add phase B to phase A while stirring and afterwards homogenise well. Cool to room temperature under continuous stirring, adding phase C at approx. 30 °C.

Suppliers

- 1) BK Giulini
- 3) Dow Corning
- 4) Croda
- 5) BASF

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