

Gilugel® JOB

Rheological Additive for Cosmetic Formulations

INCI Name: Jojoba (*Simmondsia chinensis*) 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.

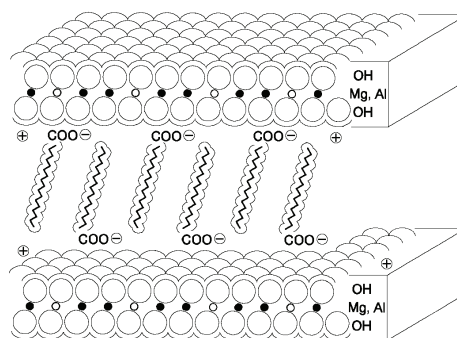
Gilugel® JOB acts in the oil phase as an emulsion stabiliser and thickener. Application levels between 5 and 15% are recommended, depending on the viscosity required.

What Gilugel® JOB is

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

Composition

Aluminium-Magnesium-Hydroxide-Stearate:	17 - 23 %
Al	0,9 - 1,2 %
Mg	2,4 - 3,2 %
Water	max. 2 %
Density	0,86 - 0,96 %
Heavy Metals (as Pb)	max. 30 ppm
Jojoba Oil	78 - 80 %
Solubility	insoluble in water





Raw Materials/ Trade name	INCI name	w/w [%]
A. Finsolv TN (2)	C12-15 Alkyl Benzoate	6,50
Neoheliopan AV (3)	Octyl Methoxy- cinnamate	7,50
Crodamol OS (4)	Ethylhexyl Stearate	4,00
Arlamol HD (5)	Isohexadecane	5,50
Cordamol GTCC (4)	Caprylic/Capric Triglyceride	5,00
Gilugel® JOB (1)	Jjoba (Simmondsia chinensis) oil (and) Alu- minum/Magnesium Hydroxide Stearate	11,00
Abil WE-09 (8)	Cetyl Dimethicone Copolyol (and) Hexyl- Laurate (and) Polyglyc- eryl-3-Oleate (and) Cetyl Dimethicone	4,00
Z-Cote HP1 (6)	Zinc Oxide (and) Di- methicone	10,00
Butylparaben	Butylparaben	0,10
B. Demineralized Water		43,80
1,2 Propylenglycol	Propylene Glycol	2,00
Phenoxyethanol	Phenoxyethanol	0,60

Sun Milk with Zinc Oxide M 05

Gilugel® JOB acts as a stabiliser and rheological additive in this formulation.

Procedure

Heat phase A and phase B to 75°C separately. Add phase B to phase A under stirring and afterwards homogenise well. Continue mixing while cooling to 45°C. Add perfume, mix to room temperature.

Suppliers

- 1) BK Giulini
- 2) Fintex
- 3) Symrise
- 4) Croda
- 5) Uniquema
- 6) BASF
- 8) Degussa (Goldschmidt)

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. Do not store below 10°C.

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.

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