

Gilugel® OS

Rheological Additive for Cosmetic Formulations

INCI Name: Octyl Stearate [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.

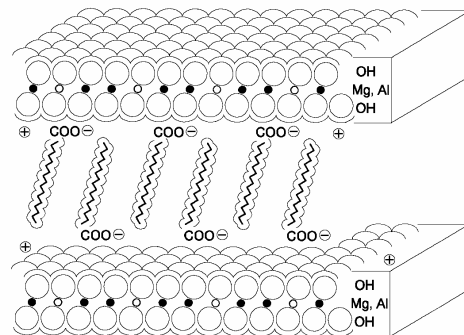
Gilugel® OS acts in the oil phase as an emulsion stabiliser and thickener. Application levels between 5 and 15% are recommended, depending on the viscosity required.

What Gilugel® OS is

Gilugel® OS is a gel based on the inorganic pharmaceutical active, Hydrotalcite, gelled in ethyl hexyl stearate.

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
Ethyl Hexyl Stearate	78 - 80 %
Solubility	insoluble in water



Raw Materials/ Trade name	INCI name	w/w [%]
A. Gilugel® OS (1)	Octyl Stearate (and) Aluminum/Magne- sium Hydroxide.Stearate	11,00
Finsolv TN (6)	C12-15 Alkyl Benzoate	6,50
Neoheliopan AV (7)	Octyl Methoxy- cinnamate	7,50
Crodamol OS (4)	Octyl Stearate	4,00
Arlamol HD (5)	Isohexadecane	5,50
Cordamol GTCC (4)	Caprylic/Capric Triglyceride	5,00
Abil WE-09 (8)	Cetyl Dimethicone Copolyol (and) Hexyl- Laurate (and) Polyglyceryl-3-Oleate (and) Cetyl Dimethicone	4,00
Zinc Oxide Neutral (7)	Zinc Oxide	5,00
Butylparaben	Butylparaben	0,10
B. Demineralized Water		48,80
1,2 Propylenglycol	Propylene Glycol	2,00
Phenoxyethanol	Phenoxyethanol	0,60

Sun Milk with Zinc Oxide M 12

Gilugel®OS acts in this formulation as a stabiliser and, due to its excellent dispersing capacity for Zinc oxide, as an SPF booster.

Procedure

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

Suppliers

- 1) BK Giulini
- 2) ICI
- 4) Croda
- 6) Finetex. Inc
- 7) Haarmann & Reimer
- 8) 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.

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.

BK Giulini GmbH has attempted to be accurate and informative regarding the products described herein: however, due to the vast potential for use of such products, we cannot take responsibility for results from the use of any product, method, or apparatus mentioned in this brochure. We must advise that no statement or suggestion herein is to be considered a recommendation or inducement for any use, manufacture, or sale that may infringe any patents now or hereafter in existence. It is the user's responsibility to make and be guided by his own tests in determining the suitability of any such product, method, or apparatus for any purpose.