

TEGO® Carbomer 340 FD

Fast dispersing viscosity adjuster and gelling agent

Intended use

Rheological additive

Stabilizer

Benefits at a glance

- Easily dispersed into water
- Benzene-free acrylic acid polymer
- Especially suitable for cosmetic gels

INCI (PCPC name)

Carbomer

Chemical and physical properties

Appearance	white powder
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Application

- TEGO® Carbomer 340 FD is an acrylic acid polymer. N-Hexane is used as solvent in the polymerisation step.
- TEGO® Carbomer 340 FD is an excellent emulsion stabiliser, viscosity adjuster and viscosity builder.
- TEGO® Carbomer 340 FD is easily dispersed into water. Processing of TEGO® Carbomer 340 FD is much faster than processing of the corresponding product TEGO® Carbomer 140.
- TEGO® Carbomer 340 FD can be used over a wide pH range.

- TEGO® Carbomer 340 FD is especially suitable for the preparation of clear water or alcohol based gels.

Preparation

Add TEGO® Carbomer 340 FD early in the formulation to allow it time to thoroughly wet out and disperse. Use propeller stirrer.

Dissolver or rotor-stator-homogeniser may be used as well. Intensive shear may lead to a viscosity reduction of the final product and should be avoided.

Neutralise near the end of the process so that all of the ingredients can mix well before the viscosity is increased. For neutralisation use triethanolamine, tetrahydroxypropyl ethylenediamine, sodium hydroxide or other inorganic bases.

Recommended usage concentration

0.05 – 1.0% TEGO® Carbomer 340 FD

Packaging

270 kg pallet (18 x 15 kg box)

Storage

TEGO® Carbomer products are hygroscopic. The material should be stored dry and in the dark. Open boxes should be used immediately.

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.

Guideline formulations

Conditioning Hair Gel UM 118/5b	
Phase A	
TAGAT® L 2 (PEG-20 Glyceryl Laurate)	3.0%
Perfume	0.5%
ABIL® B 9950 (Dimethicone Propyl PG-Betaine)	0.5%
Phase B	
Water	92.3%
TEGO® Carbomer 340 FD	1.5%
Phase C	
Sodium Hydroxyde (25% in water)	2.2%
Perfume, Preservative	q.s.
Preparation:	
Mix phases A and B separately in the given order until the solutions are homogeneous. Add B to A. The apparent turbidity disappears on neutralisation with Sodium Hydroxide. A Preservative is highly required.	

Hair "Repair" Leave-In Conditioner WA 190/11	
Phase A	
TEGINACID® C (Cetareth-25)	4.0%
ABIL® OSW 5 (Cyclopentasiloxane; Dimethiconol)	20.0%
ABIL® Soft AF 100 (Methoxy PEG/PPG-7/3 Aminopropyl Dimethicone)	1.0%
TEGO® Alkanol L 4 (Laureth-4)	0.5%
VARISOFT® BT 85 Pellets (Behentrimonium Chloride)	0.4%
Phase B	
Water	68.6%
Propylene Glycol	5.0%
TEGO® Carbomer 340 FD	0.5%
Phase Z	
Sodium Hydroxide (25% in water)	ad pH 5-6
Perfume, Preservative	q.s.
Preparation:	
Dissolve TEGO® Carbomer 340 ED in water. Heat phases A and B separately to approx. 80 °C (VARISOFT® BT 85 has to be melted). Combine both phases and prehomogenize. Neutralize with Sodium Hydroxide as required and homogenize. Cool down while stirring. Add further perfume below 45 °C.	

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