

WETSOFT® eco LV 810

Functional Silicone Fluids

WETSOFT® eco LV 810 is a self-dispersing polyether-amino-functional silicone fluid with a reduced level of cyclic siloxanes. It is based on renewable raw materials according to "TÜV NORD Standard REDcert²". In the WETSOFT® eco LV 810 manufacturing process from metallurgical silicon, the use of fossil-based raw materials is compensated 100% by biomethanol from renewable resources.

Properties

By improving hand and because of its hydrophilic nature, WETSOFT® eco LV 810 considerably improves the wear comfort of textiles and is therefore particularly suitable for use with nonwovens and terry goods. The hydrophilic properties are the result of the special orientation of WETSOFT® eco LV 810 on the fiber surface. This allows unrestricted moisture transport within the fabric, together with the excellent hand that is generally associated with high-quality silicone fabric softeners. WETSOFT® eco LV 810 bonds more strongly to the fiber surface than glycol- and quat-functional polysiloxanes. This leads to better exhaustibility and wash resistance. Formulations based on WETSOFT® eco LV 810 have a pH-stability that extends well into the alkaline range, and offer good shear resistance. Because of its cationic structure, WETSOFT® eco LV 810 has limited compatibility with anionic auxiliaries such as optical brighteners. Compatibility tests should be carried out before it is used together with other chemicals. In order to comply with the requirements of textile related certification labels, WETSOFT® eco LV 810 contains less than 1000 ppm each of D4, D5 and D6. Emulsions made from WETSOFT® eco LV 810 can be used for hydrophilic treatment of fibers and textiles. WETSOFT® eco LV 810 is an ideal active substance in hydrophilic fabric softeners for treating fibers and textiles of all kinds. On hydrophilic substrates such as cellulose, the hydrophilic properties are usually not affected, whereas hydrophobic substrates such as polyesters usually experience a clear improvement in wetting properties. WETSOFT® eco LV 810 provides woven goods and knitwear with a silklike soft, full bodied, supple and smooth hand. When applied under normal conditions as part of a fabric softener formulation, WETSOFT® eco LV 810 has no effect on whiteness. It does not generally affect the color shade or fastness of colored goods.

Technical data

General Characteristics

Property	Condition	Value	Method
Amine number	-	approx. 0.25 ml 1 N HCl/g	-
Solid content	-	approx. 80 %	-
Viscosity, dynamic	25 °C	1000 - 6000 mPa·s	DIN 53019
Appearance	-	clear to slightly turbid yellowish liquid	-

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- Eco-Products
- Softeners & Hydrophilic Softeners
- Textile Finishing
- Textiles & Leather

Application details

WETSOFT® eco LV 810 formulations are used for padding, in the exhaust process and can also be used on their own or together with organic fabric softeners, polyethylene waxes and other finishing agents. The compatibility should be tested on a case-by-case basis.

Processing:

For padding, it is recommended to use 10 to 30 g/l of a 25 % WETSOFT® eco LV 810 containing formulation.

For the exhaust process, 0.3 to 0.8 % WETSOFT® eco LV 810 is used, based on the weight of the textile.

WETSOFT® eco LV 810 can easily be diluted with warm water to produce stable formulations. Acetic acid is to be added to the formulation to reach a pH value around 5.

Typical formulation:

50.00 parts demineralized water (40°C)

0.46 parts acetic acid (80%)

4.00 parts i-tridecyl-O-(EtO)5-H (HLB 11)

25.00 parts WETSOFT® eco LV 810

20.44 parts demineralized water (40°C)

0.10 parts preservative

The emulsifier and acetic acid is dissolved in the warm (40°C) demineralized water, then add WETSOFT® eco LV 810 and mix until the product is clear and homogeneous. Finally the second amount of water is added portion-wise. The resulting micro emulsion can be protected by adding a preservative agent.

Packaging and storage

Packaging

WETSOFT® eco LV 810 is available in

- 200 kg drum
- 950 kg IBC

Storage

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

QR Code WETSOFT® eco LV 810



For technical, quality or product safety questions, please contact:

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