

JETSOFT® CONCENTRATE

Functional Silicone Fluids

JETSOFT® CONCENTRATE is a selfdispersing aminofunctional silicone fluid.

Properties

JETSOFT® CONCENTRATE is particularly suitable as active substance in softener formulations for the impregnation of fibers and textiles.

JETSOFT® CONCENTRATE imparts a characteristic, soft and natural hand with low surface smoothness to woven and knitted fabrics.

JETSOFT® CONCENTRATE is a cationic silicone fluid specifically developed for applications with high shear forces. JETSOFT® CONCENTRATE self-disperses in the acidic pH range and can easily be diluted to concentrations suitable for application.

JETSOFT® CONCENTRATE formulations are low foaming, do not yellow on cellulosic fibers, and do not affect the thermomigration of dyes.

JETSOFT® CONCENTRATE can be used for all common fibers, such as polyester, cotton, polyamide and their blends. Due to its resistance to shear forces, JETSOFT® CONCENTRATE can be applied on all conventional jet dyeing machines without causing stability or foaming problems.

Fabric treated with JETSOFT® CONCENTRATE can generally be overdyed, but preliminary trials are recommended.

Specific features

- Concentrate
- Dilutable with water

Technical data

General Characteristics

Property	Condition	Value	Method
Amine number substance	-	approx. 0.65 ml 1 N HCl/g	-
Viscosity, dynamic ⁽¹⁾	25 °C	approx. 3000 mPa·s	-
Appearance	-	yellowish turbid fluid	-

¹acc. ISO 2555

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

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

Application details

Formulation:

1. Without emulsifier
188 pbw JETSOFT® CONCENTRATE
104 pbw diethyleneglycolmonobutylether
698,5 pbw demineralized water
9 pbw acetic acid 100 %
0,5 pbw biocide

2. Low emulsifier content
100 pbw JETSOFT® CONCENTRATE
5 pbw acetic acid 100 %
9–10 pbw i-tridecyl-O-(EO)₃-H
240 – 650 pbw demineralized water
0,05 % biocide

Homogeneously mix JETSOFT® CONCENTRATE, the acetic acid and the emulsifier. While continuing to stir, add demineralized water until the required concentration is reached. The concentration will determine whether clear to slightly turbid solutions are obtained. To obtain a clear product, slightly higher amounts of emulsifier will be required in formulations with a low content of JETSOFT® CONCENTRATE .

In case of an incomplete and inhomogeneous mixing of JETSOFT® CONCENTRATE, acetic acid and emulsifier the formation of some small flakes during the following dilution with water is possible. They can easily be removed by filtration.

Processing:

The application of JETSOFT® CONCENTRATE takes place at room temperature after the soaping and rinsing of the dyed fabric. It can be combined with the cationic aftertreatment of dyes for improving color fastness.

Acidic conditions should be maintained throughout the treatment by addition of acetic acid to the pad bath. To avoid a pH shift due to alkali washed out of the fabric, a suitable excess of acetic acid should be used. Because of its cationic nature, JETSOFT® CONCENTRATE is not very compatible with anionic auxiliaries such as optical brighteners. Before using JETSOFT® CONCENTRATE with other auxiliaries in one bath, always test the compatibility. For jet application, we recommend using approx. 0.6 % JETSOFT® CONCENTRATE based on the weight of the fabric.

Packaging and storage

Packaging

JETSOFT® CONCENTRATE is available in:
0,5KG BOTTLE
190KG DRUM
900KG 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 JETSOFT® CONCENTRATE



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

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
productinformation@wacker.com, www.wacker.com

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.