

Product Specification

AROSURF® PA 935

Composition

AROSURF® PA 935 is a high molecular weight hydrophilic polyether siloxane emulsion.

Physical properties

Active matter	34 - 38 %
Refractive index (20 °C)	1.3700 - 1.3800
Density (25 °C), g/ml	1.014 - 1.034
Viscosity (25 °C), mPas	90 - 300
Cloud point (4 %) °C	68 - 74

Application fields

Tissue surface lubricant and/or a component for lotions applied on the converting line.

Benefits

AROSURF® PA 935 is an aqueous concentrate designed to achieve special surface lubrication effects on facial, or bathroom tissue during converting. It is also recommended as a component and formulation aid for converting lotions.

AROSURF® PA 935 achieves a special silicone surface feel on tissue and does not have any significant impact on the tensile strength of the sheet. It is suitable for tissue made of virgin and/or recycled fibers.

Due to its high hydrophilicity, AROSURF® PA 935 provides the treated tissue with enhanced water absorbency properties.

AROSURF® PA 935 is a non-ionic, non-substantive siloxane surfactant dilution based on synthetic raw materials. It does not contain any flammable solvents.

AROSURF® PA 935 is compatible with other non-ionic, anionic, amphoteric and cationic chemicals and/or formulation aids.

AROSURF® PA 935 can easily be diluted to form lower viscosity emulsions. For dilution, it is recommended to use demineralized water. Additionally, any presence of electrolytes and water hardness should be avoided.

Dosage/Handling

AROSURF® PA 935 can be used as is for roll, padding (kiss-roll) or print-on applications. For spray applications, the product viscosity can be set to the required range by diluting with water.

For AROSURF® PA 935 (as sold), the typical recommended dosages are around 0.3 to 1.0 g/m² of tissue. Also, these very low concentrations can enhance the softness value for tissue by +10 (TSA-measurement).

Combinations of AROSURF® PA 935 with other siloxanes or organic surfactants such as amphoteric and non-ionics are recommended for lotion formulations.

An especially beneficial combination is the use of AROSURF® PA 935 in conjunction with organic cationic softeners. In these formulations, substantivity, non-migration and additional softening or softening/debonding effects can be achieved. The compatibility of AROSURF® PA 935 with perfumes has to be checked for each particular case.

Registration status

AROSURF® PA 935 is listed on the following inventories:

EINECS, TSCA, DSL, ENCS, AICS, TCCL, PICCS, NZIoC, TCSI and China

Food Contact Compliance

AROSURF® PA 935 can be used in accordance with

- **BfR-Recommendation XV**
Food contact Materials – Silicones
- **BfR-Recommendation XIV**
Plastic Dispersions
- **BfR-Recommendation XXXVI**
Paper and Board for Food Contact, chapter B.I.10
- **EU Regulation 10/2011**
Plastic materials and articles intended to come into contact with food as regards information in the supply chain
- **EU Recommendation 2017/84**
Monitoring of mineral oil hydrocarbons in food and in materials and articles intended to come into contact with food
- **FDA § 176-210**
Defoaming agents used in the manufacture of paper and paperboard
- **FDA § 175-105**
Substances for Use Only as Components of Adhesives – Cross reference
- **FDA § 176-170**
Components of paper and paperboard in contact with aqueous and fatty foods
- **FDA § 176-180**
Components of paper and paperboard in contact with dry food

For details on restrictions, please contact us

INCI (CTFA)

TEGOTEX® MS 7510 can be used as a cosmetic ingredient. The INCI name is PEG/PPG-20/6 Dimethicone.

Storage stability

We recommend the following storage conditions:

	Storage temperature	Processing time
Container	20 – 40 °C	12 months

Prolonged storage at low temperatures (predominantly at temperatures below 15 °C) can increase the viscosity of AROSURF® PA 935, and also cause it to become turbid and/or form a precipitate. Moderate heat (approx. 30 – 40 °C) and adequate stirring will return the product to its original state without any loss of quality.

A slight haziness does not affect the product quality and its application properties. If water evaporation does appear, it can also become viscous.

AROSURF® PA 935 must be protected against frost.

Packaging

1 000 kg plastic containers

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 fire
- toxicity and ecological effects

is given in our material safety data sheets.

02/2019

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