

HEXAFOR™ 635-100

NON-IONIC FLUOROSURFACTANT

DESCRIPTION

HEXAFOR™ 635-100 is a 100% active matter non-ionic fluorosurfactant that effectively reduces surface tension at very low concentrations. **HEXAFOR™ 635-100** is based on short-chain molecule containing 6 fluorinated carbon atoms that cannot breakdown to PFOA in the environment.

HEXAFOR™ 635-100 is stable in both acidic and basic conditions, making it perfect for paints and coatings.

SPECIAL FEATURES

- ❖ Designed for water based systems.
- ❖ Good reduction of surface tension at very low concentrations.
- ❖ Excellent levelling.
- ❖ Fast lowering of surface tension.
- ❖ Reduced orange peel effect.
- ❖ Improved wetting of substrates.
- ❖ Stable in acidic, alkaline, brine and hard water medium.
- ❖ **HEXAFOR™ 635-100** is in compliance with REACH regulation.
- ❖ In compliance with the limits set by the regulation (EC) 2017/1000 on PFOA, its salts and PFOA-related substances (**PFOA free***).

TECHNICAL INFORMATION

APPEARANCE	Yellow to amber cloudy liquid
IONIC NATURE	Non-ionic
DENSITY	1,37 g/cm ³
pH	5 – 8
ACTIVE MATTER	100% (wt)

SPECIFICATIONS

Non volatile content (105°C, 30 min.): > 90%
 pH (5% in water/IPA 1:1): 5 – 8

APPLICATIONS

HEXAFOR™ 635-100 can be diluted at very low concentration (0,02 – 0,4%) to work properly.

Some examples of applications:

- ❖ Paints and coatings
- ❖ Floor waxes and finishes
- ❖ Inks
- ❖ Plating bath
- ❖ Emulsion polymerization
- ❖ Industrial detergents
- ❖ Adhesives
- ❖ Battery scale inhibitor

SOLUBILITY

Water, methoxypropanol, butyl cellosolve, isopropyl alcohol.



Certificate N. EN1339

MAFLON SPA

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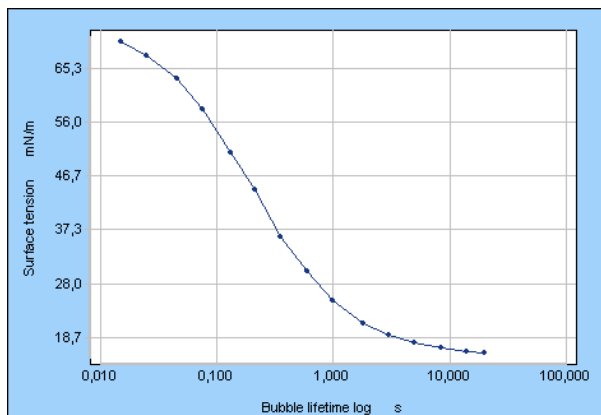
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UNI EN ISO 9001:2015

DYNAMIC SURFACE TENSION

(0,1% of active material in deionized water at 25°C)



- ❖ 44,4 dyn/cm at 0,21 seconds (bubble lifetime)
- ❖ 24,9 dyn/cm at 1 second (bubble lifetime)

STORAGE AND STABILITY

HEXAFOR™ 635-100 is stable for two years if stored in original closed drums at temperatures of 4 – 45°C (39 – 113°F).

The efficacy of the surfactant is not impaired by freezing and thawing. However, if a freeze-thaw occurs, it is recommended to bring the product at about 30 – 35°C (86 – 95°F) and stir well the entire contents of the container before use. **HEXAFOR™ 635-100** is stable in brine and acidic/alkaline medium.

PERSONAL SAFETY

Please carefully read the current Safety Data Sheet for a safety use of the product.

FOAM VOLUME A 40°C (in deionized water) [ml]

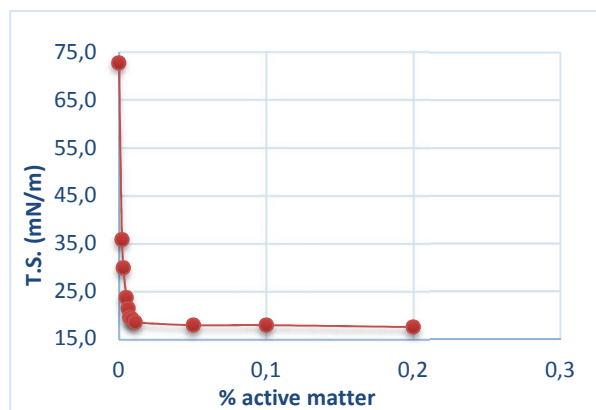
(Ross-Miles test according to ASTM D 1173)

	Initial	5 minutes
0,15% of active matter	226	206
0,5% of active matter	295	275

SURFACE TENSION IN DEIONIZED WATER AT 25°C

(Wilhelmy plate method)

- ❖ 17,9 dyn/cm at 0,01% (active matter)
- ❖ 17,4 dyn/cm at 0,05% (active matter)
- ❖ 17,4 dyn/cm at 0,1% (active matter)



PACKAGING

- ❖ Kg 5 – Drum
- ❖ Kg 25 – Drum
- ❖ Kg 100 – Drum

* Wherever the term "PFOA free" is used in this data sheet, it means that the product has a concentration below 25 ppb of PFOA including its salts and below 1000 ppb of one or a combination of PFOA-related substances, according to the regulation (EC) 2017/1000.



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