

HEXAFOR™ 633

NONIONIC FLUOROSURFACTANT

DESCRIPTION

HEXAFOR™ 633 is a non-ionic fluorosurfactant that effectively reduces surface tension at very low concentrations. **HEXAFOR™ 633** is based on short-chain molecule containing 6 fluorinated carbon atoms that cannot breakdown to PFOA in the environment.

HEXAFOR™ 633 has high property in terms of dynamic surface tension, allowing the coating formulations to reach rapidly the low values of static surface tensions.

It is stable in both acidic and basic conditions, making it perfect for paint and coatings.

SPECIAL FEATURES

- ❖ 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™ 633** is in compliance with REACH regulation.
- ❖ Meets the goals of the voluntary U.S. EPA 2010/2015 PFOA Stewardship Program
- ❖ Targeted below LOD for PFOA (**PFOA free***)

APPLICATIONS

HEXAFOR™ 633 expresses its best properties already at very low concentration (0,01 – 0,1%).

Some examples of application:

- ❖ Paint and coating
- ❖ Floor waxes and finishes
- ❖ Inks
- ❖ Metal working
- ❖ Industrial detergents
- ❖ Adhesive
- ❖ Plating bath
- ❖ Battery scale inhibitor

TECHNICAL INFORMATION

APPEARANCE (40°C)	Yellow to amber cloudy liquid
IONIC NATURE	Non ionic
DENSITY	1,28 g/cm ³
pH (5% in water)	4 – 6
COMPOSITION	100% active material

SPECIFICATION

Non volatile content at 105°C 30 min: 95 – 100%

SOLUBILITY

Water, ethylene glycol, methoxypropanol, butyl cellosolve, dipropylene glycol methyl ether, ethanol, isopropyl alcohol, acetone



Certificate N. EN1339

MAFLON SPA

(Società Socio Unico Soggetta all'attività di direzione e coordinamento ex art.2497 bis C.C. da parte di Mazza Holding srl)

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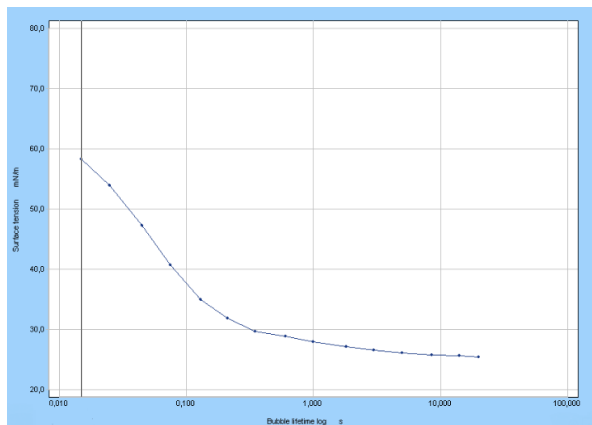
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SISTEMA DI GESTIONE CERTIFICATO

DYNAMIC SURFACE TENSION

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



- ❖ 31,8 dyn/cm at 0,21 sec (bubble lifetime)
- ❖ 27,9 dyn/cm at 1 sec (bubble lifetime)

PERSONAL SAFETY

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

STORAGE AND STABILITY

HEXAFOR™ 633 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 that the entire contents of the container be agitated prior to use. Stable in brine and acidic/alkaline medium. a slight sediment may form during storage. Bring the product at about 30-50°C, mix it and let it return at room temperature in nitrogen blanket. This will not interfere with the performances of the product.

SURFACE TENSION IN DEIONIZED WATER AT 25°C

(Wilhelmy plate method)

- ❖ 26,5 dyn/cm at 0,01% (active matter)
- ❖ 24,8 dyn/cm at 0,05%
- ❖ 24,8 dyn/cm at 0,1%

PACKAGING

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

* Wherever the term "PFOA Free" is used in this data sheet, it means content of PFOA is less than limit of detection (20ppb).



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