



HEXA FOR™ 631

NONIONIC FLUOROSURFACTANT

DESCRIPTION

HEXA FOR™ 631 is a water-based, non-ionic fluorosurfactant that effectively reduces surface tension at very low concentrations. **HEXA FOR™ 631** is based on short-chain molecule containing 6 fluorinated carbon atoms that cannot breakdown to PFOA in the environment.

HEXA FOR™ 631 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

- ❖ Specifically 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
- ❖ **HEXA FOR™ 631** 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

HEXA FOR™ 631 expresses its best properties already at very low concentration (0,04 – 0,4%).

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 | Clear yellow to slightly cloudy amber liquid |
| IONIC NATURE | Non ionic |
| DENSITY | 1,08 g/cm ³ |
| pH | 4,5 – 6,5 |
| ACTIVE MATTER | 24 – 26% |
| COMPOSITION | 24 – 26 % active material 74 – 76 % Water |

SPECIFICATION

Non-volatile content at 105°C 30 min: 24 – 26%

pH: 4,5 – 6,5

SOLUBILITY

Water, methoxypropanol, butyl cellosolve, isopropyl alcohol.



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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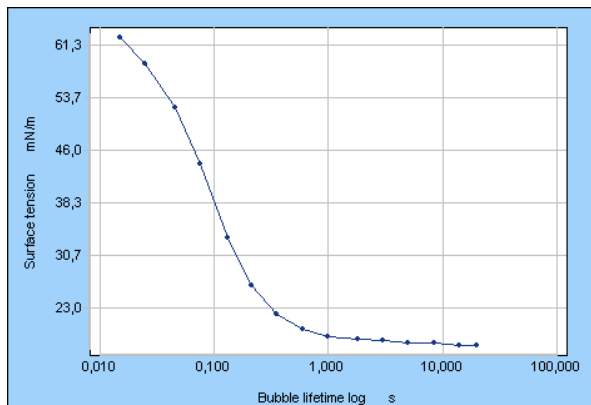


UNI EN ISO 9001:2008



DYNAMIC SURFACE TENSION

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



- ❖ 26.4 dyn/cm at 0,21 sec (bubble lifetime)
- ❖ 18.8 dyn/cm at 1 sec (bubble lifetime)

STORAGE AND STABILITY

HEXAFOR™ 631 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.

PERSONAL SAFETY

Consult the current **Safety Data Sheet** for safety use of the product.

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

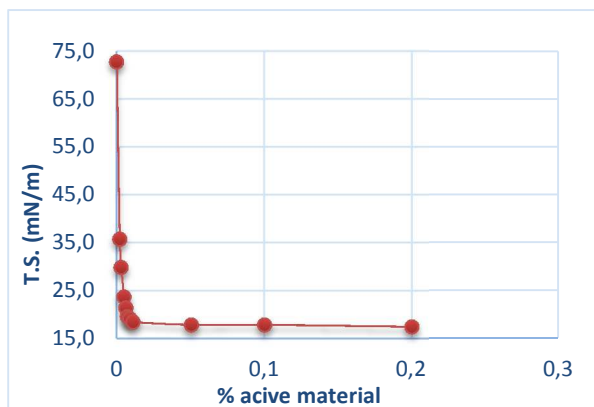
(Ross-Miles test according to ASTM D 1173)

| | 0' | 5 min |
|------------------------|-----|-------|
| 0,15% of active matter | 106 | 59 |
| 0,5% of active matter | 141 | 98 |

SURFACE TENSION IN DEIONIZED WATER AT 25°C

(Wilhelmy plate method)

- ❖ 18.5 dyn/cm at 0,01% (active matter)
- ❖ 17.9 dyn/cm at 0,05%
- ❖ 17.9 dyn/cm at 0,1%



PACKAGING

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

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



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