



HEXAFOR™ 676

SHORT PERFLUORINATED CHAIN FLUOROSURFACTANT

DESCRIPTION

HEXAFOR™ 676 is a water soluble, ethoxylated non-ionic fluorosurfactant (solvent free) that effectively reduces surface and interfacial tension at very low concentrations.

HEXAFOR™ 676 is based on short-chain molecule containing 6 fluorinated carbon atoms, that cannot breakdown to PFOA in the environment. It is stable in both acidic and basic conditions, making it perfect for water- based paint and coatings. It can be used as an emulsifying agents.

SPECIAL FEATURES

- ❖ Specifically for water based systems
- ❖ Good reduction of surface tension at very low concentrations
- ❖ Fast lowering of surface tension
- ❖ Excellent levelling
- ❖ Reduced orange peel effect
- ❖ Improved wetting of most water-solvent based
- ❖ **HEXAFOR™ 676** is "ultimately biodegradable" as defined by annex III of the European Regulation 648/2004/Ec on detergents.
- ❖ Short chain (C6) technology
- ❖ Meets the goals of the voluntary U.S. EPA 2010/2015 PFOA Stewardship Program
- ❖ **HEXAFOR™ 676** is exempt from the obligation imposed by REACH regulation because it is classified as a polymer.
- ❖ Targeted below LOD for PFOA (**PFOA free***)

APPLICATIONS

HEXAFOR™ 676 expresses its best properties already at very low concentration (0,01 – 0,4%).

Some examples of application:

- ❖ Detergents and Cleaners
- ❖ Paint, coating and inks
- ❖ Waxes and polishes
- ❖ Floor strippers, industrial and institutional cleaning

TECHNICAL INFORMATION

APPEARANCE	Colorless/pale yellow clear liquid
IONIC NATURE	Non ionic
DENSITY	1,15 g/cm ³
COMPOSITION	64 - 66 % active matter 34 - 36 % water

SPECIFICATION

Non volatile content: 64 – 66 %
pH : 4,5 – 6,5

SOLUBILITY

>2% in Water

FOAM VOLUME A 40°C (in deionized water)

[ml]

(Ross-Miles test according to ASTM D 1173)

	Initial	5 min
0,15% of a.m.	336	304
0,5% of a.m.	422	373



Certificate N. EN1339

MAFLON SPA

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UNI EN ISO 9001:2015



SURFACE TENSION IN DEIONIZED WATER AT 25°C

(Wilhelmy plate method.)

- ❖ 18,7 dyn/cm at 0,01 % (active matter)
- ❖ 18,7 dyn/cm at 0,05 %
- ❖ 18,7 dyn/cm at 0,1 %

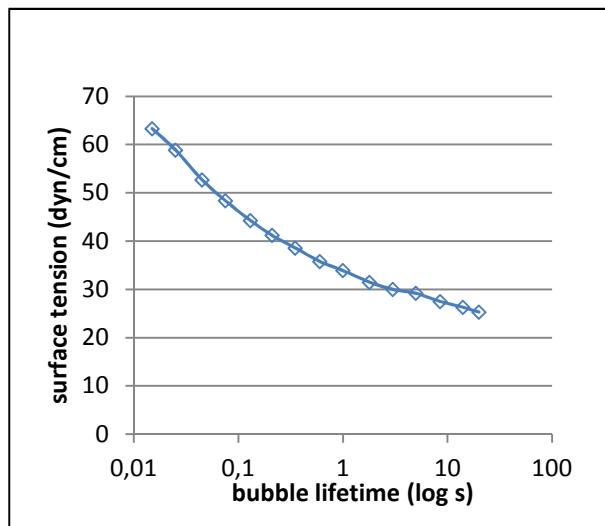
INTERFACIAL TENSION AT 25 °C (dyn/cm)

	Cyclohexane
0,1% active material in water	3,2

DYNAMIC SURFACE TENSION

Bubble life time method

(0.1% of active material in deionized water at 25°C)



- ❖ 33,9 dyn/cm at 1 sec (bubble lifetime)
- ❖ 29,2 dyn/cm at 5 sec (bubble lifetime)

SURFACE TENSION IN WATER-BASED RESINS

Resin	Control	Hexafor 676	
		0.1%	0.3%
Joncryl 1532	39,6	30,7	29,5
Joncryl 8224	44,0	29,3	29,0
Joncryl 8330	43,2	30,3	26,8
Joncryl 8331	44,6	38,6	28,9

STORAGE AND STABILITY

HEXAFOR™ 676 is stable for two years if stored in original closed drums at temperatures of 4 – 45°C (39 – 113°F). Stable to freezing.

PERSONAL SAFETY

HEXAFOR™ 676 does not contain toxic substances. Consult the current **Material Safety Data Sheet** for safety use of the product.

PACKAGING

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

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

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