



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
FLASH POINT	21°C (70°F)
COMPOSITION	64 - 66 % active matter 34 - 36 % water

SPECIFICATION

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

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

Maflon S.p.A.

Via Don Ravizza snc
24060 Castelli Calepio (BG) IT
Phone +39.035.4494311
Accounting Dept. Fax +39.035.4425249

VAT N. IT 04080020169
REA N. 433424
Cap. Sociale € 100.000 interamente versato

Fluorochemical Specialties
<http://www.maflon.com> - info@maflon.com
Technical Dept. Fax +39.035.4494331



UNI EN ISO 9001:2008



July 2014. The Information contained in this form and any verbal informations are provided to the best of our knowledge.

Not assume responsibility for incorrect or outdated informations, except for agreements reached or otherwise for any contractual obligations. These informations are outdated in the face of publishing a new edition.

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 %

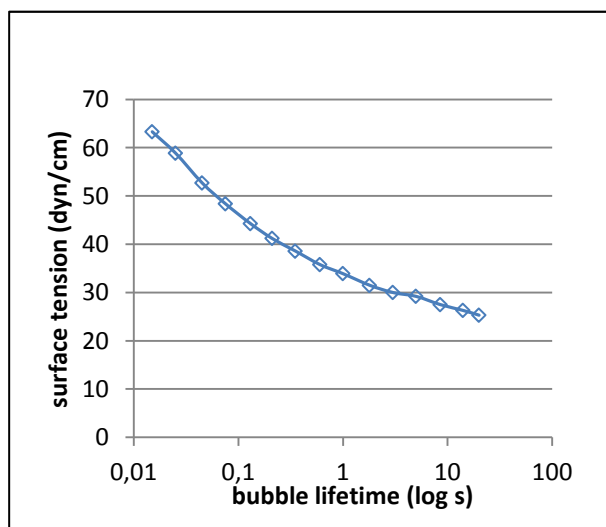
INTERFACIAL TENSION AT 25 °C (dyn/cm)

	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; heating is not recommended (flammable liquid).

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).

Maflon S.p.A.

Via Don Ravizza snc
24060 Castelli Calepio (BG) IT
Phone +39.035.4494311
Accounting Dept. Fax +39.035.4425249

VAT N. IT 04080020169
REA N. 433424
Cap. Sociale € 100.000 interamente versato

Fluorochemical Specialties
http://www.maflon.com - info@maflon.com
Technical Dept. Fax +39.035.4494331



UNI EN ISO 9001:2008



July 2014. The Information contained in this form and any verbal informations are provided to the best of our knowledge.

Not assume responsibility for incorrect or outdated informations, except for agreements reached or otherwise for any contractual obligations. These informations are outdated in the face of publishing a new edition.