

HEXAFOR™ 672

SHORT PERFLUORINATED CHAIN FLUOROSURFACTANT

DESCRIPTION

HEXAFOR™ 672 is a water and solvent soluble, ethoxylated non-ionic fluorosurfactant with a very low foaming that reduces effectively surface tension of water and solvent-based systems.

HEXAFOR™ 672 has high property in terms of dynamic surface tension, allowing the coating formulations to reach rapidly the low values of static surface tensions.

HEXAFOR™ 672 is effective additive in water-solvent based paint and coatings.

SPECIAL FEATURES

- ❖ Specifically for water and solvent based systems
- ❖ Excellent reduction of surface tension at very low concentrations
- ❖ Very low foam formation
- ❖ Fast lowering of surface tension: dynamic surface tension reaches values below 23.1 dyn/cm in less than 3s bubble life time
- ❖ Excellent levelling
- ❖ Reduced orange peel effect
- ❖ Improved wetting of most water-solvent based
- ❖ Short chain (C6) technology
- ❖ Meets the goals of the voluntary U.S. EPA 2010/2015 PFOA Stewardship Program
- ❖ **HEXAFOR™ 672** 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™ 672 can be used in a dosage level between 0.1% and 1% as supplied product based upon total formulation.

The dosage levels are indicated for the purpose of orientation, depending on the application and the concentration of other additives and solvents in the formulation.

Some examples of application:

- ❖ Paint, coating and inks
- ❖ Waxes and polishes
- ❖ Graphic arts
- ❖ Adhesive

TECHNICAL INFORMATION

APPEARANCE	Colorless/pale yellow clear liquid
IONIC NATURE	Non ionic
DENSITY	0.98 g/cm ³
FLASH POINT	74°C
COMPOSITION	9 – 11 % active material 89 - 91 % DPM

SPECIFICATION

Non volatile content:	9 – 11 %
pH (5% in water):	5 – 7

SOLUBILITY

>2% in Water, Isopropanol, Acetone, Propylene glycol, Methyl Ethyl Ketone, DPM, Ethanol, Butyl Acetate, Exxsol D40, Toluene.

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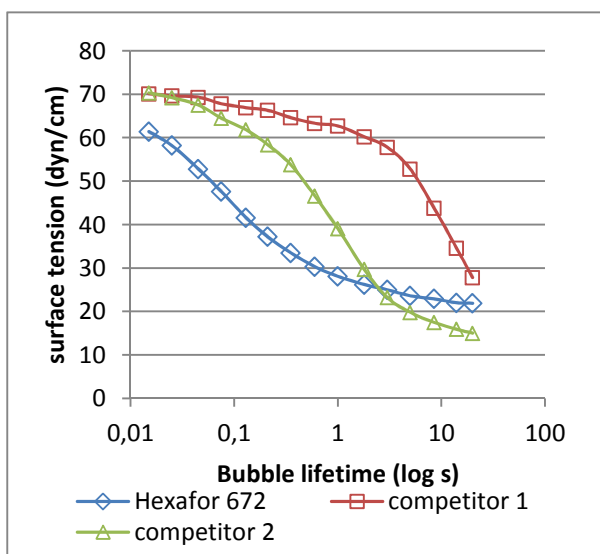
SURFACE TENSION IN DEIONIZED WATER AT 25°C

(Wilhelmy plate method.)

- ❖ 18.8 dyn/cm at 0.01 % (active material)
- ❖ 18.3 dyn/cm at 0.05 %
- ❖ 18.2 dyn/cm at 0.1 %

DYNAMIC SURFACE TENSION

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



- ❖ 30.3 dyn/cm at 0.6 s (bubble lifetime)
- ❖ 23.2 dyn/cm at 3 s (bubble lifetime)

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

(Ross-Miles test according to ASTM D 1173)

	Initial	5 min
0.5% active material	98	39

STORAGE AND STABILITY

HEXAFOR™ 672 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™ 672 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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