

HEXAFOR™612

SHORT PERFLUORINATED CHAIN FLUOROSURFACTANT

DESCRIPTION

HEXAFOR™612 is an anionic fluorinated surfactant that effectively reduces surface tension at very low concentrations for water based systems.

HEXAFOR™612 is based on short-chain molecule containing 6 fluorinated carbon atoms, that cannot breakdown to PFOA in the environment.

Low addition levels of **HEXAFOR™612** provides exceptional wetting, levelling, reduced orange peel effect, making it perfect as additive for floor polish, wax formulation, paint and coating.

SPECIAL FEATURES

- ❖ Specifically for water-based
- ❖ Good reduction of surface tension at very low concentrations
- ❖ Excellent levelling
- ❖ Reduced orange peel effect
- ❖ Improved wetting of most aqueous based systems
- ❖ Meets the goals of the voluntary U.S. EPA 2010/2015 PFOA Stewardship Program
- ❖ Targeted below LOD for PFOA (**PFOA free***)

SPECIFICATION

Non volatile content: 25 – 27%
pH: 6 – 8

APPLICATIONS

HEXAFOR™612 expresses its best properties already at very low concentration (0.05 – 0.4%).

Some examples of application:

- ❖ Paint and varnish
- ❖ Inks
- ❖ Waxes and polishes
- ❖ Industrial and institutional cleaning
- ❖ Electronic
- ❖ Adhesives

TECHNICAL INFORMATION

APPEARANCE	Pale yellow to amber clear liquid
IONIC NATURE	Anionic
pH	6 - 8
DENSITY	1.00 g/cm ³
FLASH POINT	21°C (70°F)
MOLECULAR WEIGHT	488
SOLID CONTENT	25 - 27 % (wt)
COMPOSITION	25 - 27 % active material 49 - 51 % Isopropyl alcohol 24-26 % Water

SOLUBILITY

- ❖ >2% in water and methyl alcohol
- ❖ 0.1% in isopropyl alcohol
- ❖ Insoluble in acetone, ethyl acetate, THF, toluene, heptane and chloroform

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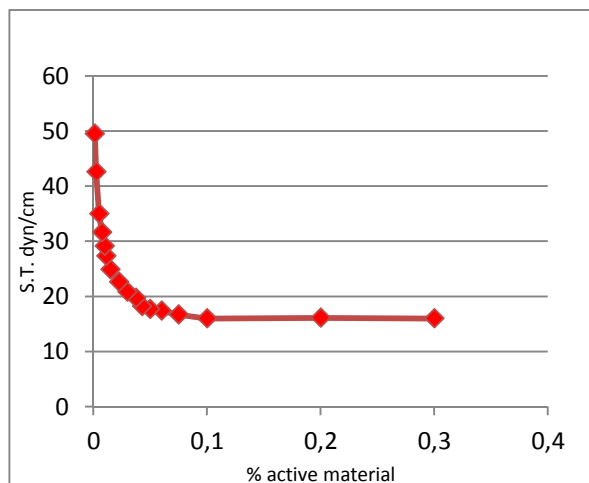


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SURFACE TENSION IN DEIONIZED WATER AT 25°C

(Wilhelmy plate method)



- ❖ 28.6 dyn/cm at 0.01 % (active material)
- ❖ 17.7 dyn/cm at 0.05 %
- ❖ 16.8 dyn/cm at 0.1 %

C.M.C. : 0.07% in deionized water

ROSS-MILES FOAM VOLUME at 40°C (in deionized water) [ml]

	Initial	5 min
0.01% of active material	39	20
0.1% of active material	393	304

SURFACE TENSION IN WATER-BASED RESINS

Resin	Control	Hexafor 612	
		0.1%	0.3%
Joncryl 1532	39.6	20.7	19.8
Joncryl 8224	44.0	18.1	16.5
Joncryl 8330	43.2	19.7	19.7
Joncryl 8331	44.6	20.3	19.4

STORAGE AND STABILITY

HEXAFOR™ 612 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™ 612 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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