

HEXAFOR™ 644-D

POLYMERIC FLUOROSURFACTANT

DESCRIPTION

HEXAFOR™ 644-D is a polymeric non-ionic fluorosurfactant for water based and solvent based systems.

HEXAFOR™ 644-D reduces surface and interface tension, improves wetting and leveling, reduces cratering, fish eyes, and orange peel effect.

HEXAFOR™ 644-D is based on short-chain fluorinated monomers containing 6 perfluorinated carbon atoms, that cannot breakdown to PFOA in the environment.

SPECIAL FEATURES

- ❖ Specifically for water-solvent based systems
- ❖ Good reduction of surface tension
- ❖ Good reduction of interfacial tension
- ❖ Excellent leveling
- ❖ High flash point
- ❖ High thermal stability
- ❖ Reduced orange peel effect
- ❖ Improved wetting of most solvent based systems
- ❖ Short chain (C6) technology
- ❖ Meets the goals of the voluntary U.S. EPA 2010/2015 PFOA Stewardship Program

SURFACE TENSION IN DEIONIZED WATER AT 25°C

(Wilhelmy plate method)

- ❖ 23.0 dyn/cm a 0.01 %
- ❖ 21.4 dyn/cm a 0.05 %
- ❖ 20.5 dyn/cm a 0.1 %

APPLICATIONS

HEXAFOR™ 644-D expresses its best properties already at very low concentration (0.05 – 0.3% active material).

Some examples of application:

- ❖ Paint and coating
- ❖ Floor waxes and polishes
- ❖ Adhesive and caulks
- ❖ Graphic arts
- ❖ Industrial cleaners
- ❖ Electronic

TECHNICAL INFORMATION

APPEARANCE	Liquid
COLOR	Yellow/Amber
IONIC NATURE	Non ionic
DENSITY	1.04 g/cm ³
FLASH POINT	74 °C
COMPOSITION	24-26% active matter 76-74 % DPM

SPECIFICATION

Non volatile content: 24 – 26 %

SOLUBILITY

>2% in Water, Isopropanol, Methyl Ethyl Ketone, DPM, Methanol, Butyl Acetate, Methoxy propanol, Toluene.

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TECHNICAL DATA SHEET



INTERFACIAL TENSION AT 25°C [dyn/cm]

	Heptane	Cyclohexane
0.5% of active material in deionized water	3.1	2.5

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

(Ross-Miles test according to ASTM D 1173)

	Initial	5 min
0.15% of active matter	137	59
0.5% of active matter	334	216

PERSONAL SAFETY

HEXA FOR™ 644-D does not contain toxic substances. Please, consult the current **Material Safety Data Sheet** for safe use of the product.

STORAGE AND STABILITY

HEXA FOR™ 644-D is stable for two years if stored in its original drums, sealed and preserved at temperatures of 10 – 45°C (50 – 113°F).

PACKAGING

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

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

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