

HEXAFOR™ 641

ANIONIC FLUOROSURFACTANT

DESCRIPTION

HEXAFOR™ 641 is a high performance water soluble anionic fluorosurfactant. It is based on double short-chains containing 6 fluorinated carbon atoms, that cannot breakdown to PFOA in the environment. **HEXAFOR™ 641** reduces surface tension at very low concentrations for water based systems.

SPECIAL FEATURES

- ❖ Specifically for water-based
- ❖ Good reduction of surface tension at very low concentrations
- ❖ Excellent leveling
- ❖ Improved wetting of aqueous based systems
- ❖ Short chain (C6) technology
- ❖ Meets the goals of the voluntary U.S. EPA 2010/2015 PFOA Stewardship Program
- ❖ Targeted below LOD for PFOA (**PFOA free***)

TECHNICAL INFORMATION

| | |
|------------------|--|
| APPEARANCE | Pale yellow to yellow clear liquid |
| IONIC NATURE | Anionic |
| pH | 8 - 10 |
| DENSITY | 1.0 g/cm ³ |
| FLASH POINT | 21°C (70°F) |
| MOLECULAR WEIGHT | 884 |
| SOLID CONTENT | 25-27% (wt) |
| COMPOSITION | 25-27% active material 48-50% Isopropyl alcohol 24-26% Water |

APPLICATION

HEXAFOR™ 641 expresses its best properties already at very low concentration (0.01 – 0.2%).

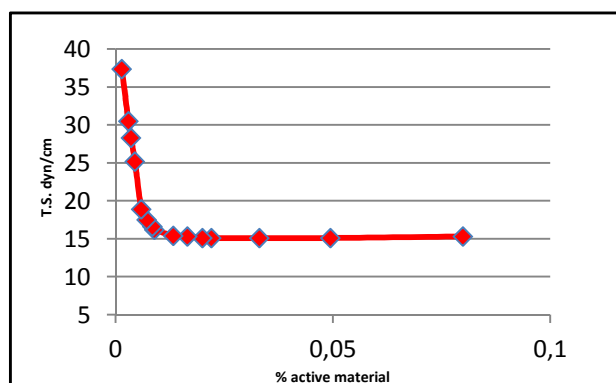
Some examples of application:

- ❖ Paint and varnish
- ❖ Waxes and polishes
- ❖ Floor strippers, industrial and institutional cleaning
- ❖ Adhesives

SURFACE TENSION IN DEIONIZED WATER AT 25°C

(Wilhelmy plate method.)

- ❖ 16.3 dyn/cm at 0.01 % (active material)
- ❖ 15.3 dyn/cm at 0.05 %
- ❖ 15.2 dyn/cm at 0.1 %



SURFACE TENSION IN WATER-BASED RESINS

| Resin | Control | Hexafor 641 | |
|---------------|---------|-------------|------|
| | | 0.1% | 0.3% |
| Neorez R-9621 | 45.7 | 15.5 | 16.1 |
| Joncryl 1532 | 39.6 | 17.8 | 17.2 |
| Joncryl 8224 | 44.0 | 16.3 | 16.3 |
| Joncryl 8330 | 43.2 | 16.7 | 16.2 |
| Joncryl 8331 | 44.6 | 15.9 | 16.9 |

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TECHNICAL DATA SHEET



SPECIFICATION

Non volatile content: 25 – 27%
pH : 8 – 10

SOLUBILITY

Water, 2-propanol, tert-butanol, Hexasol,

ROSS-MILES FOAM VOLUME at 25°C (DI water) [ml]

| | Initial | 5 min |
|--------------------------|---------|-------|
| 0.01% of active material | 10 | 10 |
| 0.1% of active material | 255 | 226 |

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

STORAGE AND STABILITY

HEXAFOR™ 641 is stable for one year if stored in original closed drums at temperatures of 4 – 45°C (39 – 113°F). Avoid freezing. If frozen let it return to room temperature.

PERSONAL SAFETY

HEXAFOR™ 641 does not contain toxic substances. Consult the current **Material Safety Data Sheet** for safety use of the product.

PACKAGING

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

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