TECHNICAL DATA SHEET

HEXAFOR™ 641

ANIONIC FLUOROSURFACTANT

DESCRIPTION

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

SPECIAL FEATURES

- Specifically designed for water-based systems.
- Excellent reduction of surface tension at very low concentrations.
- Excellent leveling.
- Improved wetting of water based systems.
- Short chain (C6) technology.
- In compliance with the limits set by the regulation (EC) 2017/1000 on PFOA, its salts and PFOA-related substances (**PFOA free***).

SOLUBILITY

Water, Isopropanol, tert-butanol, Hexasol.

TECHNICAL INFORMATION

APPEARANCE	*From pale yellow to yellow clear liquid*
IONIC NATURE	*Anionic*
pH	*8 – 10*
DENSITY	*1 g/cm^3*
FLASH POINT	*21°C (70°F)*
MOLECULAR WEIGHT	*884*
SOLID CONTENT	*25 – 27% (wt)*
COMPOSITION	*25 – 27% active material* *48 – 50% Isopropanol* *24 – 26% water*

SPECIFICATIONS

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

APPLICATION

HEXAFOR™ 641 can be diluted at very low concentration (0,01 – 0,2%) to work properly.
Some examples of application:

- Paints and varnishes
- Waxes and polishes
- Industrial detergents
- Adhesives

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ISO 14001 REGISTERED
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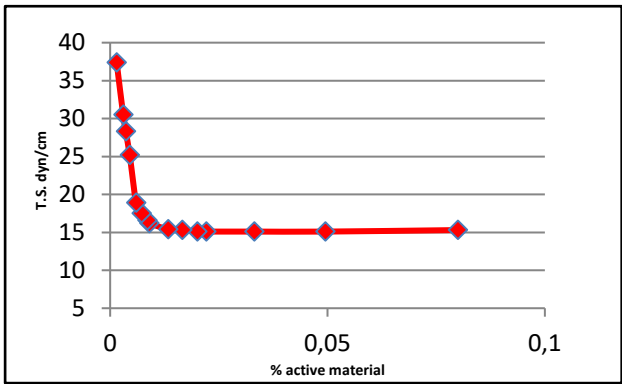
SURFACE TENSION IN DEIONIZED WATER AT 25°C

(Wilhelmy plate method.)

- 16,3 dyn/cm at 0,01% (active material)
- 15,3 dyn/cm at 0,05% (active material)
- 15,2 dyn/cm at 0,1% (active material)



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

ROSS-MILES FOAM VOLUME at 25°C (DEIONIZED WATER) [ml]

	Initial	5 minutes
0,01% of active material	10	10
0,1% of active material	255	226

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.

PERSONAL SAFETY

HEXAFOR™ 641 does not contain toxic substances. Please carefully read the current Safety Data Sheet for a safety use of the product.

PACKAGING

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

* Wherever the term "PFOA Free" is used in this data sheet, it means that the product has a concentration below 25 ppb of PFOA including its salts and below 1000 ppb of one or a combination of PFOA-related substances, according to the regulation (EC) 2017/1000.

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