

# HEXAFOR™ 642

## POLYMERIC FLUOROSURFACTANT

### DESCRIPTION

**HEXAFOR™ 642** is a polymeric non-ionic fluorosurfactant for water based and solvent based systems.

**HEXAFOR™ 642** reduces surface tension, improves wetting and leveling, reduces cratering, fish eyes, and orange peel effect.

**HEXAFOR™ 642** is especially designed for the production of stable aqueous effect pigment dispersions.

### SPECIAL FEATURES

- ❖ Specifically for water-solvent based systems
- ❖ Good reduction of surface tension
- ❖ Excellent leveling
- ❖ High flash point
- ❖ Low viscosity
- ❖ Recommended to stabilize pigments in gel coats
- ❖ Reduced orange peel effect
- ❖ Improved wetting of most solvent based systems
- ❖ **HEXAFOR™ 642** is exempt from the obligation imposed by REACH regulation because it is classified as a polymer.

### TECHNICAL INFORMATION

APPEARANCE	Liquid
COLOR	Pale Yellow/ Yellow
IONIC NATURE	Non-ionic
DENSITY	1,10 g/cm <sup>3</sup>
FLASH POINT	> 100°C
COMPOSITION	100% active matter

### APPLICATIONS

**HEXAFOR™ 642** as levelling agent expresses its best properties already at very low concentration (0,1 – 0,5%). The optimum dosage could change a lot depending on the application field. Some examples of application:

- ❖ Paint and coating
- ❖ Automotive coating
- ❖ Wood coating
- ❖ Floor waxes and polishes
- ❖ Adhesive and caulks
- ❖ Pigment
- ❖ Industrial cleaners
- ❖ Coil Coating
- ❖ Printing inks

### SURFACE TENSION IN DEIONIZED WATER AT 25°C (Wilhelmy plate method)

- ❖ 22,5 dyn/cm a 0,01 %
- ❖ 21,0 dyn/cm a 0,05 %
- ❖ 20,3 dyn/cm a 0,1 %

### SURFACE TENSION IN SOLVENTS

	% in weight of Hexafor 642	
Solvent	0%	0,5%
Methanol	22,9	22,4
Toluene	28,5	27,0
Methyl ethyl ketone	24,4	23,7

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

(Ross-Miles test according to ASTM D 1173)

	Initial	5 min
0,5% of active matter	230	177



Certificate N. EN1339

### MAFLON SPA

(Società Socio Unico Soggetta all'attività di direzione e coordinamento ex art.2497 bis C.C. da parte di Mazza Holding srl)

Sede Legale  
Viale Bianca Maria 41 - 20122 Milano (MI) ITALY  
VAT N. IT04080020169 - C.F. 04080020169  
REG.IMPRESSE DI MI - REA 2507998  
CAPITALE SOCIALE € 500.000

Sede Operativa  
Via Don Ravizza snc - 24060 Castelli Calepio (BG) ITALY  
REG.IMPRESSE DI BG - REA 433424

### Fluorochemical Specialties

Phone +39.035.4494301  
Accounting Dept. Fax + 39.035.4425249

<http://www.maflon.com> - [info@maflon.com](mailto:info@maflon.com)  
Technical Dept. Fax +39.035.4494331



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## TECHNICAL DATA SHEET



### SPECIFICATION

Non volatile content: 97 – 100%

### SOLUBILITY

Solvent	% Hexafor 642
Water	>10%
Methyl ethyl ketone	>10%
Isopropanol	>10%
Methanol	>10%
Methoxy propanol	>10%
Butyl Cellosolve	>10%
N-Metil Pirrolidone	>10%
Butyl acetate	>10%
Toluene	>10%
Mineral spirit	Insoluble

### STORAGE AND STABILITY

**HEXAFOR™ 642** is stable for two years if stored in its sealed original drums. Below 20°C (68°F) the product may become solid or some settling may occur. Heat to >30 °C (86 °F) and stir. Freezing does not change the physical properties of the product.

### PERSONAL SAFETY

**HEXAFOR™ 642** does not contain toxic substances. Please, consult the current **Material Safety Data Sheet** for safe use of the product.

### PACKAGING

- ❖ Kg 5 – Drum
- ❖ Kg 50 – Drum
- ❖ Kg 200 – Drum



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