



# HEXAFOR™ 685

## SOLVENT BASE POLYMERIC FLUORINATED ADDITIVE

### DESCRIPTION

**HEXAFOR™ 685** is a polymeric fluorinated additive for solvent based systems.

**HEXAFOR™ 685** reduces surface tension, improves wetting and leveling, reduces cratering, fish eyes, and orange peel effect.

At the right dosage, **HEXAFOR™ 685** can be used as foam stabilizer.

**HEXAFOR™ 685** is based on short fluorinated chains, with 6 perfluorinated carbon atoms, that cannot breakdown to PFOA in the environment.

### SPECIAL FEATURES

- ❖ Specific for solvent based systems
- ❖ Good reduction of surface tension
- ❖ Excellent leveling
- ❖ Foam stabilizer
- ❖ High thermal stability
- ❖ Reduced orange peel effect
- ❖ Improved wetting of most solvent based systems
- ❖ **HEXAFOR™ 685** is exempt from the obligation imposed by REACH regulation because it is classified as a polymer.
- ❖ 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: 24 – 26 %

### APPLICATIONS

**HEXAFOR™ 685** expresses its best properties already at very low concentration (0.05 – 0.5% as supplied).

Some examples of application:

- ❖ Automotive coatings
- ❖ Industrial coatings
- ❖ Can coatings
- ❖ Wood and furniture coatings

### TECHNICAL INFORMATION

APPEARANCE	Pale yellow to yellow clear liquid
DENSITY	0.86 g/cm <sup>3</sup>
FLASH POINT	>70°C (> 158°F)
COMPOSITION	24 – 26% active material 74 – 76% Distillates (petroleum), light fraction 'hydrotreating'

### SOLUBILITY AT 22°C

Solvent	% Hexafor 685
Water	insoluble
Methyl Ethyl Ketone	>10%
Metoxy Propyl acetate	insoluble
hydrocarbons c9 aromatics (solvesso 100)	>10%
n-butanol	insoluble
Butyl acetate	>10%
Toluene	>10%
Xylene	>10%
White spirit (D40)	>10%
Isopar H, Isopar G	>10%



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  
Technical Dept. Fax +39.035.4494331



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## TECHNICAL DATA SHEET



### SURFACE TENSION IN SOLVENTS AT 25°C

Solvent	0%	with Hexafor 685
Methyl Ethyl Ketone	24.6	22.5
Butyl acetate	25,0	23.2
Metoxy Propyl acetate	27.8	22.2
White spirit D40	23.6	18.9
Solvesso 100	29.2	21.7
Xylene	28.1	23.1

### FOAMING CAPACITY

Blender Test Foaming in some solvents with 0.1% of active material at room temperature.

Solvent	0'[ml]	5'[ml]	10'[ml]	15'[ml]
Isopar H	125	75	40	20
Metryl D72	225	120	90	30
Gasolio	115	100	80	70
85% isoparaffins+ 15% Kydol	155	130	100	25

### STORAGE AND STABILITY

**HEXAFOR™ 685** is stable for two years if stored in original closed drums at temperatures of 4 – 45°C (39 – 113°F). Heating is not recommended (product may ignite above 70°C/158°F).

### PERSONAL SAFETY

**HEXAFOR™ 685** does not contain toxic substances. Consult the current **Safety Data Sheet** for safe use of the product.

### 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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