



**IL SHIM FINE CHEMICALS**

# ***CEPTOL™ FLN 610***

**SHORT PERFLUORINATED CHAIN FLUOROSURFACTANT**

## **■ DESCRIPTION**

**CEPTOL™ FLN610** is a nonionic fluorinated surfactant that effectively reduces surface tension at very low concentrations for water based systems.

**CEPTOL™ FLN610** is based on short-chain molecule containing 6 fluorinated carbon atoms, that cannot breakdown to PFOA in the environment.

Low addition levels of **CEPTOL™ FLN610** provides exceptional wetting, levelling, reduced orange peel effect, making it perfect as additive for floor polish, wax formulation, paint and coating.

## **■ SPECIAL FEATURES**

- Specifically for water-solvent based systems
- Good reduction of surface tension
- Excellent leveling
- High flash point
- Low foam forming
- High thermal stability
- Reduced orange peel effect
- Improved wetting of most solvent based systems
- **CEPTOL™ FLN610** is exempt from the obligation imposed by REACH regulation because it is classified as a polymer.

## **■ TECHNICAL INFORMATION**

- APPEARANCE : Viscous liquid
- COLOR : Yellow/Amber
- IONIC NATURE : Non-ionic
- DENSITY : 1.28 g/cm<sup>3</sup>
- FLASH POINT > 100° C
- COMPOSITION : Min 95% active matter

## **■ SPECIFICATION**

Non volatile content: 98 - 100%

## **■ APPLICATIONS**

**CEPTOL™ FLN610** expresses its best properties already at very low concentration (0.05 - 0.3%).

Some examples of application:

- Paint and coating
- Floor waxes and polishes
- Adhesive and caulks
- Graphic arts

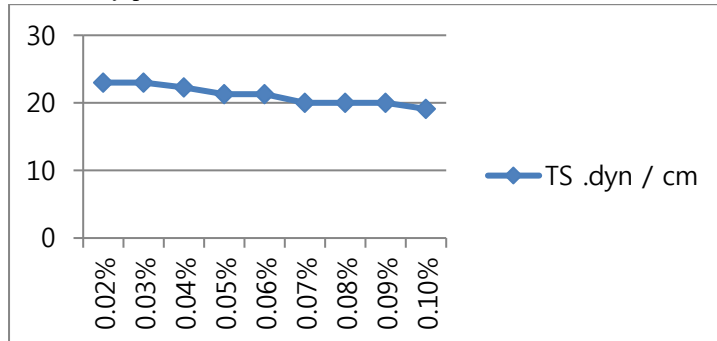


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- Industrial cleaners
- Electronic

## SURFACE TENSION IN DEIONIZED WATER AT 25° C

(Wilhelmy plate method)



- 23.5 dyn/cm a 0.01 %
- 22.3 dyn/cm a 0.05 %
- 19.1 dyn/cm a 0.1 %

## SURFACE TENSION IN SOLVENTS

% in weight of CEPTOL™ FLN610			
Solvent	0%	0.1%	0.5%
Methanol	22.9	22.7	22.5
Toluene	28.5	22.6	18.7
MEK	24.4	24.4	24.4

### ■ SOLUBILITY

In some cases, to facilitate the solubilization of the product, we recommend to wait a few hours after weighing of the components, and then proceed to stirring the same.

Solvent % CEPTOL™ FLN610

Water : >10%

Methyl ethyl ketone : >10%

Dimethyl formamide : >10%

Isopropanol : >10%

Methanol : >10%

Methoxy propanol : >10%

Texanol : >10%

Butyl Cellosolve : >10%

N-Metil Pirrolidone : >10%

Butyl acetate : >10%

Toluene : 10% dispersibile

Mineral spirit : Insolubile

### ■ STORAGE AND STABILITY

CEPTOL™ FLN610 is stable for two years if stored in its original drums, sealed and preserved at temperatures of 10 – 45° C (50 – 113° F).

If frozen, let it return fluid bringing it to a temperature of about 40° C. Freezing does not change the physical properties of the product.



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## ■ SURFACE TENSION IN WATER-BASED RESINS

Resin Control CEPTOL™ FLN60

Resin	Control	CEPTOL™ FLN60	
		0.1%	0.3%
Acryl emulsion A	44.0	31.1	25.7
Acryl emulsion B	43.2	29.5	26.7
Acryl emulsion C	44.6	25.6	23.3

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

(Ross-Miles test according to ASTM D 1173)

Initial 5 min

	Initial	5 min
0.15% of active material	157	80
0.5% of active material	216	100

## ■ PERSONAL SAFETY

does not contain toxic substances.

Please, consult the current **Material Safety Data Sheet** for safe use of the product.

## ■ PACKAGING

- \_ Kg 5 – Drum
- \_ Kg 25 – Drum
- \_ Kg 100 – Drum

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## ■ PACKAGING

- \_ Kg 5 – Drum
- \_ Kg 25 – Drum
- \_ Kg 100 – Drum

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