

# Fluorolink® F10

## Perfluoropolyether

Fluorolink® F10 is a diphosphate derivative based on a linear perfluoropolyether backbone.

This product has been specifically designed to strongly interact with several substrates such as metals, metal oxide, ceramics, stones, cellulose and paper substrates, either in its acidic or salt form.

Fluorolink® F10 reduces the surface energy and imparts to the surface a combination of properties such as oil-water repellence, stain release, easy cleaning, anti-adhesion as well as self-lubricity, which typically stems from the presence of a thin fluorinated layer.

### Typical properties of Fluorolink® F10

Properties	Typical Value	Unit	Test Method
Functional group	Phosphate		
Appearance	Highly viscous		
Color	Brown		
AMW (Mn)	1,500–3,000	amu	
Density at 20 °C	1.73	g/cm <sup>3</sup>	
Dynamic viscosity	30,000–100,000	cP	

### Water dispersion

Fluorolink® F10 could be dispersed in water with the help of a co-solvent, according to the following recipe:

Properties	Typical Value	Unit
Fluorolink® F10	10	% w/w
Isopropyl alcohol (IPA)	33	% w/w
NH <sub>4</sub> OH (30 % water solution)	2.5	% w/w
Water	54.5	% w/w

### How to use:

Blend water and NH<sub>4</sub>OH, then slowly add Fluorolink® F10 while stirring. Stir till the dispersion appears homogeneous, add IPA and adjust pH to values above 7.

### Solvent solution

Fluorolink® F10 is soluble in mixtures of partially-fluorinated solvents and alcohols, as an example:

- HFE-7,100/MeOH 3:1 by weight
- HFX/EtOH 3:1 by weight

[www.solvay.com](http://www.solvay.com)

[SpecialtyPolymers.EMEA@solvay.com](mailto:SpecialtyPolymers.EMEA@solvay.com) | Europe, Middle East and Africa

[SpecialtyPolymers.Americas@solvay.com](mailto:SpecialtyPolymers.Americas@solvay.com) | Americas

[SpecialtyPolymers.Asia@solvay.com](mailto:SpecialtyPolymers.Asia@solvay.com) | Asia Pacific

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