

# Hyflon® MFA® XPH 5510\_1N

Perfluoropolymer

Solvay Specialty Polymers

## Message:

Hyflon® XPH 5510\_1N is a white aqueous MFA dispersion. Hyflon® XPH 5510\_1N exhibits excellent wetting properties and high shear stability. Hyflon® XPH 5510\_1N has very good film forming behavior and is especially suited for top-coat passes to produce final items with superior gloss. Due to its features, XPH 5510\_1N can of course also find use in formulations for coating applications.

Main features of Hyflon® XPH 5510\_1N MFA® dispersion are:

NO polyethoxylated alkylphenols

Excellent wetting properties

Superior gloss of final items

General Information			
Features	Highlight		
	Rapid wetting		
Uses	Impregnation uses		
	Coating application		
Appearance	White		
Forms	Liquid		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm <sup>3</sup>	ASTM D4441
pH	> 9.0		ASTM D4441
Average Particle Size	180	nm	Internal method
Brokfield Viscosity (20°C)	20	mPa · s	ASTM D2196
MFA content <sup>1</sup>	55.0	wt%	ASTM D4441
Nonionic surfactant <sup>2</sup>	3.5	wt%	ASTM D4441
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	310	°C	ASTM D4591
Additional Information	Nominal Value	Unit	Test Method

#### Processing

Hyflon® XPH 5510\_1N is processed according to methods generally used for conventional impregnation technology. Generally the procedure involves dip-coating and then heating to remove water and surfactant from the impregnated item. Depending on the application, sintering above the melting point of the coated resin may be carried out to obtain the finished coated articles.

Hyflon® XPH 5510\_1N can be processed neat or appropriately formulated. Also, it can be used diluted using distilled or deionized water. Formulation, line speed and oven temperature must all be well controlled for optimized features of the coated substrates.

#### Storage and Handling

Hyflon® MFA® dispersions must be stored under suitable temperature conditions to ensure prolonged stability. Temperatures lower than 5°C must be avoided to prevent irreversible settling. Also, some settling may occur on prolonged standing and/or heat exposure. It is therefore strongly recommended that the product is always kept at temperatures below 35°C. The optimum storage temperature range is 10 - 25°C. It is also advisable that the product is homogenized by gentle rolling or stirring once per month and prior to use.

Prolonged exposure of the liquid to air could lead to some coagulation at the surface due to water evaporation. For this reason and also to avoid contamination, it is recommended to keep the containers closed when not in use.

#### Safety and Toxicology

Before using Hyflon® MFA® dispersions consult the product Material Safety Data Sheet and follow all label directions and handling precautions.

As with all PTFE materials, handling and processing should only be carried out in well ventilated areas. Venting units should be installed above processing equipment. Fumes must not be inhaled and eye and skin contact ought to be avoided. In case of skin contact wash with soap and water. In case of eye contact flush with water immediately and seek medical help. Do not smoke in areas contaminated with powder, vapour or fumes. See Material Safety Data Sheet for detailed advice on waste disposal methods.

#### Packaging

Hyflon® XPH 5510\_1N is packaged in either 25 kg drums or 1300 kg IBC's.

#### NOTE

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| 1. | On the mixture |
| 2. | On the mixture |

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