

Hyflon® MFA D 5510 F

perfluoropolymer

Hyflon® MFA D 5510 F is a white aqueous dispersion. Hyflon® MFA D 5510 F exhibits excellent wetting properties and high shear stability. Hyflon® MFA D 5510 F 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, D 5510 F can of course also find use in formulations for coating applications.

Main features of Hyflon® MFA D 5510 F dispersion are:

- NO polyethoxylated alkylphenols
- Excellent wetting properties
- Superior gloss of final items

General

Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific • Europe	• Latin America • North America
Features	• High Gloss	• Rapid Wetting
Uses	• Coating Applications	• Impregnation Applications
Appearance	• White	
Forms	• Liquid	

Physical	Typical Value	Unit	Test method
Density	1.41	g/cm ³	ASTM D4441
Average Particle Size	180	nm	Internal Method
pH	> 9.0		ASTM D4441

Thermal	Typical Value	Unit	Test method
Melting Temperature	305	°C	ASTM D4591

Fill Analysis	Typical Value	Unit	Test method
Brookfield Viscosity (20°C)	20	mPa·s	ASTM D2196

Additional Information	Typical Value	Unit	Test method
MFA Content ¹	55	wt%	ASTM D4441
Non Ionic Surfactant ¹	3.5	wt%	ASTM D4441

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Processing

- Hyflon® MFA D 5510 F 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® MFA D 5510 F 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 fluoropolymer 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, vapor or fumes. See Material Safety Data Sheet for detailed advice on waste disposal methods.

Packaging

- Hyflon® MFA D 5510 F is packaged in either 25 kg drums or 1300 kg IBC's.
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Notes

Typical properties: these are not to be construed as specifications.

¹ on the mixture

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