

Algoflon[®] D 1612 F polytetrafluoroethylene

Algoflon® D 1612 F is a white aqueous PTFE dispersion. It is designed for conventional impregnation and cast film processes.

Algoflon® D 1612 F exhibits excellent wetting properties and good shear stability. Algoflon® D 1612 F has very good film forming behaviour and is wellsuited for both basecoat and topcoat passes. Main features of Algoflon® D 1612 F PTFE dispersion include:

- NO polyethoxylated alkylphenols
- Excellent wetting properties
- Good shear stability

o on or or

Material Status	 Commercial: Active 		
Availability	Asia PacificEurope	North America	
Features	Chemical ResistantHigh Heat Resistance	Low Friction	
Uses	Coating ApplicationsImpregnation Applications	Industrial Castings	
Appearance	• White		
Forms	• Latex		

Physical	Typical Value Unit	Test method
Average Particle Size	240 nm	Internal Method
Density	1.51 g/cm³	ASTM D4441
рн	> 9.0	ASTM D4441
Fill Analysis	Typical Value Unit	Test method
Brookfield Viscosity - (20°)	21 mPa∙s	ASTM D2196
Additional Information	Typical Value Unit	Test method
Non Ionic Surfactant - (on the mixture)	2.8 wt%	ASTM D4441
PTFE Content - (on the mixture)	60 wt%	ASTM D4441

Processing

- Algoflon® D 1612 F is processed according to methods generally used for conventional impregnation and cast film technologies. Generally the procedure involves dip-coating or casting on a substrate and then heating to remove water and surfactant. Depending on the application, sintering above the crystalline melting point of the coated resin may be carried out to obtain the finished articles. Multiple passes may be required to obtain the desired PTFE load and coating thickness.
- Algoflon[®] D 1612 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

- Algoflon® PTFE dispersions must be stored under suitable temperature conditions to ensure prolonged stability. Prolonged exposure to temperatures lower than 5°C must be avoided to prevent irreversible settling. Also, some settling may occur on prolonged standing and/or heat exposure. Therefore, it is strongly recommended to keep the product below 35°C. The optimum storage temperature range is 5-25 °C. If the product remains continuously out of the range 5-35 °C for long times, we suggest bringing it in the range 5-25 °C followed by the re-homogenization under gentle stirring and the removal of eventual agglomerated particles with a filter of 200 µm and 20 um before the use.
- It is also advisable that the product is homogenized by gentle rolling or stirring once per month and prior to use. Syensqo recommends both stirring and filtration for the removal of eventual agglomerate if the product remains in stock for more than three months without gentle stirring.
- Prolonged exposure of the PTFE latex 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.
- The pH of product must be kept in the range 9.5-11.0 for avoiding bacterial growth that causes odor and scum.
- During handling, violent agitation and pumping must be avoid to minimize agglomeration and foaming formation. It is recommended to convey the dispersion by gravity from its container to the processing station.

Safety and Toxicology

- Before using Algoflon[®] PTFE dispersions consult the product 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 Safety Data Sheet for detailed advice on waste disposal methods.

Packaging

• Algoflon® D 1612 F is packaged in either 30 kg drums or 1500 kg IBC's.

Additional Technical Information

• For Safety Data Sheet or additional technical information consult your Syensqo sales representative, or contact us by e-mail.

Notes

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

www.syensqo.com

Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

Neither Syensqo nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this product, related information or its use. Some applications of which Syensqo's products may be proposed to be used are regulated or restricted by applicable laws and regulations or by national or international standards and in some cases by Syensqo's recommendation, including applications of food/feed, water treatment, medical, pharmaceuticals, and personal care. Only products designated as part of the Solviva® family of biomaterials may be considered as candidates for use in implantable medical devices. The user alone must finally determine suitability of any information or products for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infinged. The information and the products are for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right.

All trademarks and registered trademarks are property of the companies that comprise the Syensqo or their respective owners.

© 2024 2023 Syensqo. All rights reserved.

