

Algoflon® D 2711 F polytetrafluoroethylene

Algoflon® D 2711 F is a white aqueous PTFE dispersion. It is designed for coagulation processes and is particularly recommended for co-coagulation with fillers in the production of mechanical components like bearings and seals.

Algoflon® D 2711 F contains an anionic non-fluorinated dispersant to provide storage and handling stability, yet it can be easily coagulated

with appropriate ingredients and/or fillers into a wet, processable mush.

Main features of Algoflon® D 2711 F PTFE dispersion are:

- Very good handling and storage stability
- Suitability for processing with a vast range of fillers

General

Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• North America
Features	• Chemical Resistant • High Heat Resistance	• Low Friction
Uses	• Bearings • Coating Applications	• Impregnation Applications
Appearance	• White	
Forms	• Latex	

Physical

	Typical Value	Unit	Test method
Anionic Dispersant - (on PTFE) ¹	1.7	wt%	Internal Method
Average Particle Size ²	250	nm	Internal Method
Density ³	1.19	g/cm ³	Internal Method
pH	10.3		ASTM E70

Additional Information

	Typical Value	Unit	Test method
PTFE Content - (on the mixture) ¹	28	wt%	Internal Method

Processing

- Algoflon® D 2711 F is processed according to methods generally used for conventional co-coagulation technology. The procedure may involve a pre-dispersion of the fillers prior to mixing with the dispersion and, further, shearing of the mixture to coagulate it into a mush with the optional aid of additives such as inorganic cations. Draining of excess water may be necessary before the mush is post-treated for the manufacturing of the finished articles. Depending on the application, sintering above the crystalline melting point of PTFE may be carried out to obtain the final items.
- Algoflon® D 2711 F allows to obtain a wide range of articles where premium properties of PTFE such as lowest coefficient of friction, chemical inertness and stability at high temperatures need to be coupled with improved mechanical and wear resistance.

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 there-homogenization under gentle stirring and the removal of eventual agglomerated particles with a filter of 200 µm and 20 µm 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 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, vapor or fumes.
- See Material Safety Data Sheet for detailed advice on waste disposal methods.

Packaging

- Algoflon® D 2711 F is packaged in either 25 kg drums or 1200 kg IBC's.

Additional Technical Information

- For Material 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.

¹ Internal Method: PF89/20

² Internal Method: PF89/23

³ Internal Method: PF89/24

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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.

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