Algoflon® D 2711 F

polytetrafluoroethylene

Algoflon® D 2711 F is a white aqueous PTFE dispersion and is produced without any intentional use or addition of PFOA. 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/cm³	Internal Method
pH	10.3		ASTM E70

Additional Information	Typical Value	Unit	Test method
PTFE Content - (on the mixture) [1]	27.5	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. 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 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 Solvay Specialty Polymers 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