

Diofan® F 805

polyvinylidene chloride

PVDC Aqueous Dispersion

Breakers are an important component of gelled hydraulic fracturing fluids as they assist with clean-up of the fracture when the pressure is released. Diofan® F 805 is a special PVDC dispersion grade which offers performance attributes making it quite suitable for encapsulating breaking agents such as ammonium, potassium and sodium persulphate.

These attributes include:

- Good coverage and pin-hole free coatings
- Stable fine particle dispersion to ensure good colloidal stability under shear encountered at the spray nozzle
- Very low viscosity suitable for spray coaters
- Low interfacial tension to improve surface wettability and coating coverage
- Allows non-tacky and slip resistant coatings to maximize process output

General

Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Features	• Dispersible	
Uses	• Coating Applications	• Encapsulant
Agency Ratings	• AICS Listed on Inventory • DSL Listed on Inventory • EC 1907/2006 (REACH)	• EINECS Listed on Inventory • TSCA Listed on Inventory
Appearance	• Milky White	
Forms	• Liquid	

Physical

Typical Value Unit

Density		
Coated film (dry)	1.65 g/cm ³	
Dispersion (wet)	1.31 g/cm ³	
Emulsion Type	Anionic	
Filmability - Film Forming Temperature	18 °C	
pH	3.0	
Solids Content	58 %	
Surface Tension - Foaming tendency	32 mN/m	
Viscosity - Dynamic (20°C)	10 mPa·s	

Mechanical

Typical Value Unit

Test method

Coefficient of Friction vs. Itself - Dynamic	0.21	ASTM D1894
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Additional Information

Typical Value Unit

Barrier Properties – Water, Cobb test for 30 minutes (80°C, 37.0 µm)

0.3 g/m²

Shelf Life (23°C)

12 month

DELIVERY AND STORAGE

- Diofan® F 805 is delivered in bulk or in Intermediate Bulk Containers (IBC). Bulk supplied latex should be stored in reservoirs made of suitable stainless steel, HDPE, rigid PVC or glass fiber-reinforced polyester.
- Contact of anionic Diofan® dispersions with metals like iron, zinc, aluminum and copper as well as alloys such as brass and bronze must be avoided.
- Keep the vessels tightly closed to prevent drying through evaporation. Store the product ideally between 5°C and 30°C (41 °F and 86°F) to avoid degradation.

PROCESSING – DRYING

- Diofan® F 805 can be processed with different coating techniques, including industrial spray coating processes.
- Diofan® coatings require adequate drying conditions, since, in general, higher temperatures will contribute to better barrier properties.

FOOD AND DRUG LEGISLATIONS

- Some agency ratings are listed on page 1. Necessary certification will be provided upon request.

ISO CERTIFICATION

- The implemented management system for the production, internal transfer and delivery, design and development of Diofan® vinylidene chloride copolymers (PVDC) produced in Tavaux has been assessed and found to meet the requirements of ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007.
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Notes

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

