INOFLON® Fluoropolymers

GUJARAT FLUOROCHEMICALS
VALUE THROUGH GREEN CHEMISTRY

AD9400EX

TECHNICAL DATA SHEET

TECHNICAL INFORMATION

INOFLON® AD9400EX is an aqueous milky dispersion of PTFE resin, stabilized in water by non-ionic surfactant. Products processed correctly from INFLON® AD9400EX exhibit superior properties of the fluoropolymer resins. It can be used for impregnation of woven packing, yarns, glass fabric for food and industrial market, and topcoat formulation of high-performance cookware and industrial coating.

PRODUCT FEATURES

- Excellent chemical resistance
- Service temperature: -250°C (-418°F) to +250°C (482°F)
- Excellent wetting properties
- Excellent film forming properties
- High shear stability
- Product is manufactured without the use of fluorinated polymerization aids

TYPICAL PROPERTIES

Properties	Test Method	Unit	Nominal Value
Solid content (% PTFE resin by weight)	ASTM D4441/DIN EN ISO 12086	%	60
Surfactant content on PTFE solids	ASTM D4441/DIN EN ISO 12086	%	6.0
Specific gravity	ASTM D4441/DIN EN ISO 12086	-	1.51
Average particle size	GFL Internal Method	nm	260
pH of dispersion	ASTM E70/DIN ISO 976	-	>9.5

Note: These are typical properties and not to be used for specification purposes.

FDA COMPLIANCE

When products made from INOFLON® AD9400EX are correctly, processed, that is sintered at high temperature practiced by industries, they may comply with FDA Regulation 21CFR 177.1550 for use in contact with food.

NOTE - Unsintered dispersion products do not comply.

PACKAGING

INOFLON® AD9400EX is available in 30 Litre (7.9 gal) non-returnable plastic drum and 1000 Litre (264 gal) recyclable IBC.

INOFLON® AD9400EX

HANDLING AND STORAGE

Aqueous dispersions should be stored at temperatures between 10°C and 25°C. Freezing the dispersion or storage of dispersion at high temperatures must be avoided due to its irreversible coagulating effect on PTFE particles. Aqueous dispersions have a low settling tendency although if the dispersions are to be stored for a long duration, it should be rolled or gently agitated twice a month or before usage to rejuvenate settled particles.

Ammonium hydroxide is used by GFL to maintain the pH of dispersion between 9.5 and 10.5 at the time of shipment. High ambient temperatures can deplete the ammonia level and reduce the pH which favors bacterial growth in dispersion and can cause odor and scum. The pH should be monitored and maintained between 9.5 and 10.5.

Please also read our Material Safety Data Sheet for more information.

SAFETY PRECAUTIONS

Handling and processing of PTFE must be done in ventilated areas to prevent personnel exposure to the fumes liberated during sintering and heating of the resin. Fumes should not be inhaled and eye and skin contact must be avoided. In case of skin contact, wash with soap and water immediately. In case of eye contact, flush with water immediately and seek medical help. Smoking tobacco or cigarettes contaminated with PTFE may result in a flu-like condition including chills, fever and sore throat that may not occur until a few hours after exposure has taken place.

Mixtures of some metal powders such as magnesium or aluminum are flammable and explosive under some conditions. Please read the Material Safety Data Sheet and the detailed information in the "Guide for the Safe Handling of Fluoropolymer Resins" available at www.plasticseurope.org.

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WARNING: Do not use any of INOFLON® PTFE resins in medical devices that are designed for permanent implantation in the human body. For other medical uses, prior permission of GFL may be sought.

SALES AND TECHNICAL SUPPORT

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