

INOFLON® AD9410

TECHNICAL DATA SHEET

TECHNICAL INFORMATION

INOFLON® AD9410 is an aqueous PTFE bimodal dispersions, stabilized in water by non-ionic surfactant. This form of polytetrafluoroethylene is highly crystalline. Products processed correctly from INOFLON® AD9410 exhibit superior properties of the fluoropolymer resins. it can be used for topcoat formulations of high-performance cookware and industrial coating.

PRODUCT FEATURES

- Excellent chemical resistance
- Service temperature: -250°C (-418°F) to +250°C (482°F)
- Bimodal particle size distribution
- Excellent film-forming properties
- PFOA free
- Low porosity

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	205
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® AD9410 are correctly processed, that is sintered at high temperature practiced by industries, they may comply with FDA Regulation 21 CFR 177.1550 for use in contact with food.

NOTE - Unsintered dispersion products do not comply.

PACKAGING

INOFLON® AD9410 is available in 30 Litre (7.9 gal) non-returnable plastic drum and 1000 Litre (264 gal) IBC recyclable containers.

INOFロン® AD9410

HANDLING AND STORAGE

Aqueous dispersions should be stored at temperatures between 10°C to 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 to 10.5.

Please also read our Material handling and Storage guide 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.

INOFロン® is the brand name of Gujarat Fluorochemicals Limited (GFL) used for its brand of fluoropolymer resin. INOFロン® can be used in applications duly approved by GFL. Customers who plan to use the word INOFロン® as the trademark on or relation to their fluoropolymer parts and other products in any style or combination or any manner whatsoever must contact GFL for prior permission for such use. No consumer/user of GFL fluoropolymer resin is permitted to claim that their products contain INOFロン® without prior permission from GFL.

The information provided in the bulletin is furnished at no cost to the recipient and is based on the information and technical data that Gujarat Fluorochemicals Limited believes is correct and sound. Those who choose to use the information must be technically qualified, and do so entirely at their own cost and risk. The users must determine and ensure that their specific conditions of processing present no health or safety hazards. GFL does not warranty, either expressly or impliedly in respect of the use of this information for application of its INOFロン® branded fluoropolymer resin and shall bear no liability as a result of any loss or damage caused directly or indirectly due to use of any information provided in this bulletin. Nothing contained herein can be taken or construed as a grant of license by GFL to operate under or a recommendation to infringe any patents.

WARNING: Do not use any of INOFロン® 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

Corporate & Marketing Headquarter

Gujarat Fluorochemicals Limited
INOX Towers, 17, Sector-16A,
Noida - 201301 U.P., India
+91 120 6149600

Europe

Gujarat Fluorochemicals GmbH
Regus Center Watermark 14th Floor,
Überseeallee 10, 20457 Hamburg, Germany
+49 40 808074-667/668

Works

Gujarat Fluorochemicals Limited
12/A Dahej, GIDC, Industrial Estate,
Tehsil Vagra, Dist. Bharuch 392130, Gujarat, India
+91 2641 618003

Americas

GFL Americas, LLC
1212 Corporate Dr., Suite-540,
Irving, TX 75038, USA
+1 512 446 7700

