

Technical Information

INOFLON[®] AD9700 is an aqueous milky dispersions which consists of very small particles (<0.25 micron) of PTFE resin, stabilized in water by anionic surfactant. INOFLON[®] AD9700 is used for co-coagulation with various additives to provide the adequate strength, porosities and colors required for the application. INOFLON[®] AD9700 is the excellent choice for preparation of blends for coating of high performance bearings and seals.

Product Features

- ◆ Excellent chemical resistance
- ◆ Service temperature: -250°C (-418°F) to +250°C (482°F)
- ◆ High heat resistance
- ◆ Excellent wetting properties
- ◆ PFOA free
- ◆ High shear stability

Typical Properties of INOFLON[®] AD9700

| Properties | Test Method | Unit | Nominal Value |
|--|-----------------------------|------|---------------|
| Solid content (% PTFE resin by weight) | ASTM D4441/DIN EN ISO 12086 | % | 24 |
| Surfactant content on PTFE solids | ASTM D4441/DIN EN ISO 12086 | % | 5 |
| Specific gravity | ASTM D4441/DIN EN ISO 12086 | - | 1.15 |
| Average particle size | INTERNAL | nm | 220 |
| pH of dispersion | ASTM E70/DIN ISO 976 | - | >9.5 |

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

FDA Compliance

When products made from INOFLON[®] AD9700 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[®] AD9700 is available in 30 litre (7.9 gal) non returnable plastic drum and 1000 litre (264 gal) IBC recyclable containers.

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 temperature 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 to the safe handling of Fluoropolymer Resins" published by the Fluoropolymer Division of The Society of the Plastics Industry available at www.plasticseurope.org

INOFLON® is the brand name of Gujarat Fluorochemicals Limited (GFL) used for its brand of fluoropolymer resin. INOFLON® can be used in applications duly approved by GFL. Customers who plan to use the word INOFLON® as the trade mark on or relation to their own fluoropolymer parts and other products in any style or combination or in 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 INOFLON® without prior permission from GFL.

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Note 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.

For more information, please contact Gujarat Fluorochemicals Limited

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