

Technical Information

INOFLON[®] FEP 4910 is a melt processable of fine FEP particles aqueous dispersion. It can be used for coating system of high performance non-stick coatings and impregnation of woven packing, yarn & glass fabric in combination with PTFE dispersions.

Product Features

- ◆ Low settling tendency
- ◆ Excellent shear stability
- ◆ Excellent chemical resistance
- ◆ Excellent weatherability
- ◆ Wide service temperature range from -200 °C to +200 °C
- ◆ Good non-stick properties

Typical Properties of INOFLON[®] FEP 4910

| Properties | Test Method | Unit | Nominal Value |
|---------------------------------------|-----------------------------|---------|---------------|
| Solid content (% FEP resin by weight) | ASTM D4441/DIN EN ISO 12086 | % | 55 |
| Surfactant content on FEP solids | ASTM D4441/DIN EN ISO 12086 | % | 6.5 |
| Specific gravity | ASTM D4441/DIN EN ISO 12086 | - | 1.45 |
| Average particle size | INTERNAL | nm | 150 |
| pH of dispersion | ASTM E70/DIN ISO 976 | - | >9.5 |
| Melt Flow Rate | ASTM D1238 | g/10min | 10 |
| Melting Point | ASTM D4591 | °C (°F) | 260 (500) |

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

FDA Compliance

When products made from INOFLON[®] FEP 4910 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[®] FEP 4910 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 FEP 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 FEP 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 FEP 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.fluoropolymers.org

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Note warning: Do not use any of INOFLON® FEP 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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