

## Fluon<sup>®</sup> FEP Foam Concentrates

### PRODUCT DESCRIPTION

Fluon<sup>®</sup> FEP Foam Concentrates contain a well dispersed nucleating agent that acts as a site for foaming during the gas injection extrusion process. AGC Chemicals Americas' foam concentrates are based on DuPont FEP (Fluorinated ethylene propylene) and are supplied in cylindrical pellet form. These pellets are approximately 0.125" long by 0.080" diameter.

Higher flow FEP Foam Concentrates based on FEP TE9494 can be used to manufacture thinner wall constructions such as LAN twisted pair cables.

Lower flow FEP Foam Concentrates based on FEP 100 can be used to manufacture thicker wall constructions such as coaxial cable.

### TYPICAL PHYSICAL PROPERTIES

Product	Product Code	MFR (g/10 min)	Bulk Density (g/L)	L* Lightness	Dispersion Quality (microns)
FP-F-FMX1	420-516-110	6.7	1150	95.6	< 10
High Flow FMX1-9494	428-516-001	30	1180	94.1	< 10

### BENEFITS

Foamed FEP products have a lower dielectric constant and a lower dissipation factor thus minimizing signal loss and enhancing high-speed data transmission of data cables. In addition, foamed products are lighter in weight compared to similar constructions using a solid wall and results in a reduction in FEP usage which leads to a cost savings.

### USAGE

These concentrates are added (approximately 8-10%) to natural FEP. This letdown level is appropriate for typical high void content applications. Maximum void content is dependent upon foam extrusion system, tooling designs, and concentrate level.

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**AGC**  **FLUOROCOMPOUNDS GROUP**

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## HAZARDOUS SUBSTANCES

AGC Chemicals Americas' foam concentrates do not contain lead, hexavalent chromium, or cadmium, and are used in applications where RoHS (Restrictions on the use of Certain Hazardous Substances) compliance is required.

## HANDLING PRECAUTIONS

Heating fluoropolymer products in excess of 750°F (399°C) can produce toxic fumes. It is, therefore, necessary to provide local exhaust ventilation in areas where Fluon<sup>®</sup> products are exposed to high temperatures. Avoid breathing fumes or contaminating smoking tobacco with fumes, powder, or dust.

Thermal decomposition of this product will generate hydrogen fluoride, which is corrosive. Corrosion resistance materials are required for prolonged contact with molten resin.

## SAFE HANDLING INFORMATION

A summary of the hazards, as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200 for this product are:

Physical hazards: None

Health hazards: None

FOR ADDITIONAL INFORMATION AND HANDLING INSTRUCTIONS READ AGC CHEMICALS AMERICAS, INC. MATERIAL SAFETY DATA SHEET.

### For more information and samples contact

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