MICRO POWDERS, INC.

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TECHNICAL DATA SHEET

POLYFLUO 717XF

POLYFLUO 717XF is a special grade of micronized modified fluorocarbon which has been developed to provide maximum slip and lubricity when added to printing inks, paints and surface coatings. **POLYFLUO 717XF** has been micronized to a 1.0 - 1.5 NPIRI grind gauge reading for easier dispersion and better gloss properties. Incorporation into most coatings can be easily achieved with high speed mixing equipment. There is no need for prior compounding or grinding due to the fine particle size of the **POLYFLUO 717XF**. At low levels, **POLYFLUO 717XF** will impart a high degree of lubricity along with excellent rub resistance when added to inks, paints and coatings.

Recommended areas of usage are: heat-set offset, quick set, ultraviolet and metal decorating inks, overprint varnishes, and industrial paints such as coil and can coatings.

Optimum properties are usually achieved by adding 0.5-1.5% by weight when the **POLYFLUO 717XF** is used as the sole slip additive. In some cases, more desirable properties are achieved by adding the **POLYFLUO 717XF** in combination with micronized waxes or polyethylenes. When used in combination with the above types, a 2:1 ratio (wax or polyethylene: **POLYFLUO 717XF**) is recommended. A concentration of 0.5-1.0% by weight of **POLYFLUO 717XF** is recommended when it is used in combination with PE or synthetic waxes.

TYPICAL PROPERTIES

Density @ 77°F (25°C) (ASTM D-792)	- 1.14
Melting Point °F (ASTM D-127)	- 236 - 242*
Melting Point °C (ASTM D-127)	- 113 - 117*
NPIRI Grind (ASTM D-1316)	- 1.0 - 1.5
Hegman Grind (ASTM D-1210)	- 7.0 - 7.5
Laser Diffraction Analysis (MPI1004.1292)	
Maximum Particle Size (microns)	- 11.0
Mean Particle Size (microns)	- 4.0 - 5.0

At temperatures above 600°F some polymer fumes may be emitted due to decomposition of the fluorocarbon polymer. Therefore smoking should not be permitted when working with this material.

* PE Only

Rev. 3/93

Certified to ISO 9001:2000