

HEROLUB™ FMA

FLUORINATED MICRO-POWDER ADDITIVES



HEROFLON™
TECHNICAL FLUORINATED POLYMERS

Heroflon produces special **PTFE micro-powders** with **different particle size used in various market fields** like additives for thermoplastics, coatings, printing inks and lubricants. **Herolub** products are added into various matrix materials to **reduce surface friction and wear**. In thermoplastic compounds they reduce or avoid the need for **lubrication** of the finished components, both injection molded or extruded. Extrusion rate and quality can be improved increasing out-put rate, avoiding marking or surface defects and sagging, to improve scratch and chemical resistance and minimize water uptake. They can replace Graphite and Molybdenum Disulphide (MoS₂), thus avoiding soiling additives. They are **easily mixed** on-site because they do not lump or agglomerate. In **Flame Retardant** formulations they can avoid dripping even at very low percentages to fulfil **UL94 V-0** requirements.

MAIN PROPERTIES OF PTFE

- ✓ Achieves or improved self-lubrication
- ✓ Reduction of the coefficient friction and abrasion
- ✓ Improved resistance to chemical agents
- ✓ Excellent dielectric properties
- ✓ Non-stick behaviour
- ✓ Resistance to high temperatures
- ✓ Does not change the colour of the polymer blend

APPLICATIONS

- ✓ Thermoplastics, Thermosetting and Elastomers
- ✓ Lubricants
- ✓ Printing Inks
- ✓ Coating & Waxes

TWO MAIN HEROLUB FAMILIES

GRANULAR

Suspension Polymerization



FINE POWDERS or PASTE

Emulsion Polymerization



The choice between these two types of Herolub micro-powder must be made considering the most important requirements of the final application:

- ✓ The type of the host resin system
- ✓ Mechanical and Tribological properties
- ✓ Flowability
- ✓ Thickening effect
- ✓ Wall thickness
- ✓ Optical requisites
- ✓ Food contact compliancy
- ✓ Flame retardant ratings
- ✓ Viscosity

For more information, visit our website: www.heroflon.com



By means of the unique and outstanding characteristics of PTFE, Herolub PTFE micro-powders are used as additive in order to transfer one or more of their properties into the final polymeric and resin systems.

MAIN BENEFITS

THERMOPLASTICS, THERMOSETTING AND ELASTOMERS

- ✓ Self-lubrication effect
- ✓ Higher wear resistance
- ✓ Anti-friction performances
- ✓ Anti-blocking effect
- ✓ Non-stick slip behavior
- ✓ Noise reduction
- ✓ Increased PV limit
- ✓ Extended service life
- ✓ Improved chemical and UV resistance
- ✓ Improved processing speed and
- ✓ easiest machinability
- ✓ Cleaner alternative to Graphite or Mos₂
- ✓ Food contact compliancy
- ✓ Anti-dripping (UL94 V-0)

LUBRICANTS

- ✓ Self-lubrication effect
- ✓ Thickener
- ✓ High load resistance
- ✓ Extreme pressure resistance
- ✓ Non-stick slip behavior
- ✓ Anti-friction properties
- ✓ Anti-wear performances
- ✓ Small particles and high surface area
- ✓ Low impact on viscosity
- ✓ Chemicals and corrosion resistance
- ✓ Cleaner alternative to Graphite or Mos₂

PRINTING INKS

- ✓ Higher scratch and rub resistance
- ✓ Increased surface lubricity
- ✓ Non-stick and slip properties
- ✓ Gloss and clarity control
- ✓ Anti-skinning performances
- ✓ Increased heat resistance
- ✓ Better chemical resistance
- ✓ Over-printability
- ✓ Water pick-up control

COATING AND WAXES

- ✓ Mar and scratch resistance
- ✓ Improved abrasion resistance
- ✓ Surface finishing effects control
- ✓ Anti-blocking effect
- ✓ Improved moisture repellency
- ✓ Higher processing speed
- ✓ Improved weather ability and durability
- ✓ Excellent uniform texture and uniform surface

PRODUCTS	THERMOPLASTICS, THERMOSETTING AND ELASTOMERS	LUBRICANTS	PRINTING INKS	COATING AND WAXES
Herolub 1			+	
Herolub 3		+	+	+
Herolub 5	+		+	+
Herolub 5F	+	F	+	
Herolub 10	+			
Herolub 10 F	+	F		
Herolub 15	+		+	+
Herolub 15 F	+	F		
Herolub 15 LR	+			
Herolub 20 F	+	F		
Herolub 30	+			+
Herolub 30 GR	+			
Herolub P	+	AD		
Herolub C	+	AD		
Herolub C-FF	+	AD		
Herolub P5	+		+	+
Herolub P8	+		+	
Suggested Quantity (W/W)	5 – 20% 0,3 – 0,6% Anti- Dripping	Up to 30%	0,5 – 5%	0,5 – 5%

+ Best Choice F: Food Grade AD: Anti-Dripping

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