

## MicroFLON<sup>®</sup> S-Series

Micronized Polytetrafluoroethylene Powder

Shamrock MicroFLON<sup>®</sup> S-Series products represent the finest in process-controlled micronized virgin PTFE powders. In thermoplastics and elastomers, MicroFLON<sup>®</sup> S facilitates lubrication and wear resistance. The tight process and particle size control typical of the MicroFLON<sup>®</sup> product line allows for easy dispersion, and distribution of the product.

### Product Description:

MicroFLON S-Series powders are virgin PTFE micronized to various particle sizes.


### Application:

MicroFLON<sup>®</sup> S-Series Powders are designed for thermoplastics and elastomers to reduce friction and enhance anti-wear properties.

MicroFLON<sup>®</sup> S-Series Powders can be compounded into polyesters, polyamides, polyacetals, polycarbonate, and other engineering plastics. MicroFLON<sup>®</sup> S Powders have high thermal stability, ideal for polyphenylene sulfide, polyimide, polyether ether ketone, and other high temperature applications. MicroFLON<sup>®</sup> S is also effective in elastomers and blends of various engineering plastics.

**Recommended Level:** 10-30% of the Total Formula Weight

### Features and Benefits:

-  Reduces Friction
-  High Thermal Stability
-  Enhances Wear Resistance
-  Improves Stick-Slip Response
-  Reduces Noise
-  Processing Aid

Typical Properties	Method	MicroFLON <sup>®</sup> S-203	MicroFLON <sup>®</sup> S-205	MicroFLON <sup>®</sup> S-207	MicroFLON <sup>®</sup> S-211
<b>Particle Size Mean Value</b>	ASTM D-4464	15-25 µm	10-20 µm	10-12 µm	4-6 µm
<b>90% of Particles Under</b>	ASTM D-4464	40 µm	35 µm	20 µm	10 µm
<b>Melting Point</b>	ASTM D-4591	> 328°C	> 328°C	> 328°C	> 328°C
<b>Specific Gravity</b>	ASTM D-2320	2.15-2.2g/cm <sup>3</sup>	2.15-2.2g/cm <sup>3</sup>	2.15-2.2g/cm <sup>3</sup>	2.15-2.2g/cm <sup>3</sup>
<b>Bulk Density</b>	ASTM D-4894/4895	300-500 g/l	300-550 g/l	300-500 g/l	300-500 g/l
<b>Surface Area</b>	ASTM D-5675	1.0-3.0 m <sup>2</sup> /g	1.0-3.0 m <sup>2</sup> /g	1.0-3.0 m <sup>2</sup> /g	1.0-3.0 m <sup>2</sup> /g
<b>Appearance</b>	Visual	White	White	White	White

**Regulatory Status:** The components of these products are listed on multiple chemical inventories. For specific information on the applicable chemical inventories, please refer to the product SDS.

**Safety, Shipping and Handling:** For complete safety, shipping and handling information please contact your regional Customer Service Representative, or our Customer Service Team at customerserviceteam@shamrocktechnologies.com. For **more** information about Shamrock's other products or capabilities please visit us at our website, ShamrockTechnologies.com.

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