



# Fluon® PTFE Micropowders

Fluoropolymer-based additives to enhance the performance of your materials



**Fluon® PTFE Micropowders** are manufactured from virgin PTFE feedstock and are used either as dry lubricants or as additives in other materials such as plastic compounds, rubbers, fluoroelastomers, inks, paint, oils and greases. They also give enhanced lubricity, non-stick properties and reduce friction, all of which are important in a wide range of applications.

As part of AGC's commitment to sustainable business, improvements to the Fluon® Micropowder production process have been made, resulting in all grades now being compliant with EU POP regulation as amended by EU 2020/784 (4<sup>th</sup> July 2020). \*

## Applications

### In printing inks:

- ⬢ Improves rub and scuff resistance to preserve the attractive finish of printed materials
- ⬢ Helps reduce blockages in ink jets increasing efficiency and reducing wastage
- ⬢ Helps retain high gloss

### Added to other thermoplastics:

- ⬢ Improves surface wear characteristics for decorative and functional plastics by decreasing friction between component parts

### In elastomers:

- ⬢ Can be used in place of wax or stearate fillers, which ordinarily have a limited lifetime in service due to leaching in contact with hydraulic fluids or lubricating oils
- ⬢ Improves mould release and wear resistance of rubber products due to their low friction coefficient

### In oils and greases:

- ⬢ Improves the product's performance as their low surface energy means that little shear is required to form a continuous lubricating film, and their water repellency helps to preserve the lifetime of equipment by reducing opportunities for corrosion

### As an additive in paint:

- ⬢ Increases the abrasion resistance of finished surfaces
- ⬢ Enables painted surfaces to be cleaned without removing the coating due to their water repellency
- ⬢ Reduces fouling and marine growth on boat hulls, increasing the efficiency and lifetime of the vehicle, thanks to their non-stick properties

\*PFOA, its salts and PFOA-related compounds are not used in the manufacture of any Fluon® grade supplied by AGC Chemicals Europe, Ltd. In addition, AGC Chemicals Europe, Ltd. has invested in an additional processing step to remove traces of PFOA to below the 25 ppb limit; these traces are generated as an unwanted by-product during the manufacturing process.

## Fluon® PTFE Micropowder Grades

Grade	Bulk Density (g/l)	Particle Size – Laser Diffraction D50 (µm)	Surface Area (m²/g)	FDA Composition Approval	Thermoplastics	Elastomers	Oils and Greases	Inks and Industrial Finishes	General Purpose	Notes
<b>FL1650Z</b>	440	37	1.5	yes	✓	✓				High thermal stability
<b>FL1679Z</b>	1200	900*	<1	yes				✓		
<b>FL1680Z</b>	420	12	1	yes			✓	✓		
<b>FL1690Z</b>	440	37	1.5	yes	✓	✓			✓	High thermal stability
<b>L169EZ</b>	400	16	1.5	yes	✓	✓				High thermal stability
<b>FL1700Z</b>	550	15	7	yes		✓	✓	✓		Friable to sub-micron
<b>FL1700HTZ</b>	620	20	6.5	yes			✓†			Friable to sub-micron
<b>FL1710Z</b>	525	5	4	yes	✓			✓		
<b>FL1730HZ</b>	480	4	4	no			✓	✓		

\* FL1679Z particle size is measured by sieve analysis

† FL1700HTZ is specifically designed to be used in drinking water applications

## About AGC Chemicals Europe

AGC Chemicals is a leading fluoropolymer manufacturer and the world's no.1 in ETFE production. The European subsidiary, AGC Chemicals Europe, produces **Fluon® PTFE** and **ETFE** and markets other fluorinated products, including **Fluon® PFA** and **AFLAS® Fluoroelastomers**. The product range offers excellent protection against heat, chemicals and corrosion, and has a broad base of applications in industrial, automotive, aerospace, oil and gas, and other markets where long-lasting high performance is necessary.



# AGC

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