Chemours-Mitsui Fluoroproducts Co., Ltd.

Product information

MJ-545 High-Build, High-Purity PFA Powder

for Semiconductor and CPI Market

<General information>

PFA powder coating MJ-545 allows for a thicker film per application, improving productivity and reducing application time by decreasing the number of coats required for thick-film builds. The high film thickness achieved with MJ-545 provides excellent chemical and corrosion resistance, contributing to a longer service life for equipment. In addition, metal ion extractables from the coating is minimal; combining it with the clear PFA powder coating MJ-310 as a topcoat can further reduce metal ion extractables. This makes it ideal for semiconductor and chemical manufacturing equipment that requires both high corrosion resistance and high purity.

<Key benefit>

- High-build capability
- Excellent corrosion resistance and high purity with low metal ion extractable

Extractable metal ion (ppb) *1									
Li	Na	Mg	Al	K	Ca	Ti	Cr	Mn	Fe
<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.04	<0.04	<0.02	<0.04
Co	Ni	Zn	Cu	Sr	Ag	Mo	Ba	In	Pb
<0.02	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

*1: Measurement condition: Sample was washed, eluted based on MCF's standard process, and was measured by ICP-MS/MS

Primer: 420G-706, PJ-AL902M, 10-12 µm, dried at 150°C for 10-15 min (substrate temp.)

Mid and Topcoat: Apply MJ-545 by electrostatic coating, bake at 380°C for 30 min for the first coat and 360°C for 30 min for subsequent coats (substrate temperature).
In case that MJ-310 topcoat is used on top layer, bake at 360°C for 30 min.

	MJ-545	MJ-310
Color	Black	Clear
Particle size d50 (µm)	35–50	15–25
Coating thickness per coat (µm/coat)	60–160	30–50
Coating thickness (µm)	1000	100

All properties and test results presented in this document should be considered typical values, may vary depending on the test specimen and test conditions, and should not be used for specification purposes.

<Handling and Storage>

- Powders shall be stored in sealed plastic bags under optimal storage conditions: 18-27 °C (65-80 °F). Maximum storage temperature shall be 40 °C (105 °F).
- Powders may form lumps during prolonged storage; sieving through a coarse screen shall restore the powder.
- Transport conditions shall be 5–40 °C (40–105 °F).
- For handling instructions, please refer to the Safety Data Sheet (SDS).
- For medical application, please consult Chemours's sales representative.

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https://www.mc-fluoro.co.jp/
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