

Gemini[®] PFPE Anti Fingerprint Fluid AFD-809

[Introduction]

Perfluoropolyether (PFPE) anti-fingerprint coatings is obtained from perfluoroalkyl-modified silane. It is a wonderful antifouling coating agent for surface of various touch screen、display and glass lenses.

[Characteristics]

- It can be easy and quick processed, heat cured in 10 minutes
- It provides excellent stain resistant property, effectively prevents fingerprints and is easy to clean
- It provides excellent water and oil resistant properties and outstanding smooth touch feel
- The coating is very thin, which do not affect the refraction and texture of substrates
- It is suitable for substrates ,such as glass or SiO₂ related surfaces

[Typical Properties]

Properties	Units	Parameter
Solid	Wt%	20
Physical State	/	Colorless liquid
Density	g/cm ³	1.65
Coating Thickness	nm	1~20
Baking Temperature / Time	°C/min	140 / 10

[Performance]

Test Item	Test Method	AFD-809
Hydrophobic	10~20 μ L Water	115°
Oleophobic	10~20 μ L Hexadecane	68°
Steel Wool Durability	Steel wool #0000 (2x2cm), load 1kg/cm ² , stroke 4cm, speed 40 rpm	10000 cycle >100°
Salt Water Spray Test	5% NaCl, temperature 35°C, test time 72 hrs	110°
Kinetic Friction Coefficient	OA paper load 200g weight, Moving speed is 200mm/min	0.03

[Processing Method]

Spray (please strictly follow 7 steps, keep away from water or open air, otherwise it will hydrolyze)

1:Use our PFS-232 as diluting fluoro solvent or use 3M 7200

2:Please keep all the processing containers dry and clean, moisture in air will cause hydrolyze

3: Dilute AFD-809 with PFS-232 to 0.08 wt% solid content, example: 4g AFD-809 + 1000g PFS-232

4:Use ultrasonic or plasma to clean substrate and thoroughly dry substrate before treatment

5:Spray process must be slow and uniform, keep the air pressure stable during the whole process

6:Leave the treated substrate in room temperature for 5 mins then heat cure in oven at 140°C for 10 mins

7:Natural cooling substrate 30 mins back to room temperature, wipe the substrate clean before testing

Others

Vapor deposition, Dipping,Flow

[Attention]

- During processing, avoid direct contact with the skin, using gloves and safety glass in the test. If skin contacts with products, immediately wipe with a dry cloth and then wash skin with soap and water, If eyes contact with products, immediately flush eyes with plenty of water for at least 5 minutes, and call a physician.
- Keep the container sealed and store in cool、well ventilated locations. Moisture in air will cause hydrolyze.

[Packaging/Transport]100g,500g glass bottle. Not classified as dangerous in the meaning of transport regulations



www.weissbonya.com

Hunan Weiss Bonya Co., Ltd

邮箱: Weissbonya@gmail.com