AS1101

Electrostatic Dissipative Coating

Product Description

AS1101 is an ESD coating ideally suited for aerospace applications requiring exceptional durability and heat resistance. The product is fully inorganic and offers superior abrasion, radiation, corrosion, and chemical resistance. AS1101 provides more consistent electrical conductivity than conventional organic ESD coatings, while offering film stability under even the harshest environmental conditions.

Product Benefits

- Temperature resistant to 1,200°C.
- Will not erode or ablate with solvent rub.
- Smooth surface finish – not chalky.
- Exceptional outgassing properties.
- Consistent deposition onto complex surfaces with or without primer* using spray or roll deposition
- Good adhesion to polymers, metals, ceramics, glasses, and composites.

*Depending on substrate

Typical Properties	
Physical State	Paste
Color	White with Blue Hue
Viscosity (Brookfield/ Spindle @10RPM)	3500 mPa*s
Density	1.1 g/mL
pH	3 – 6
Solids	36%
Shelf Life	6 months, Room Temp, Sealed
Typical Processing Parameters	
Deposition	Spray/Dip/Roll
Cure Temperature	25 – 850 °C
Cure Time	20 min @ 80 °C
24 hrs @ 25 °C	5 hrs @ 25 °C
Recommended Thinner/ Diluent	IPA/NBA
Typical Performance	
Surface Resistivity	85 MΩ/□
Thermal Emittance	>0.88
Solar Absorbance	<0.33
Heat Resistance	1200°C
Pencil Hardness	6H
Outgassing	
E595	TML < 0.5%
	CVCM < 0.02%
E1559	80 K TML < 0.058%
	233 K VCM < 0.0015%
	263 K VCM < 0.0009%
	298 K VCM < 0.0001%
	298 K VCM < 0.0001%

ACI MATERIALS

AS1101
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Contact ACI

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Caution

Proper industrial safety precautions should be exercised in using these products. Use with adequate ventilation. Avoid prolonged contact with skin or inhalation of any vapors emitted during use or heating of these compositions. The use of safety eye goggles, gloves or hand protection creams is recommended. Wash hands or skin thoroughly with soap and water after using these products. Do not eat or smoke in areas where these materials are used. Refer to appropriate SDS information.

Disclaimer

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