

Aircraft Specialty Products

AP 280

KIT

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Product description:
SILICONE HEAT SINK COMPOUND
DPM 5979 QUALIFIED

FEATURES:

- ▶ A two-component kit that is comprised of uncatalyzed silicone resin and a select grade of aluminum powder that is packaged separately
- ▶ Pre-ratioed
- ▶ Formulated specifically for use when changing the static port heater element on DC-9 and MD-80 powerplants

KEY BENEFITS:

- ▶ Maintains an excellent bond
- ▶ Exhibits vibration resistance and flexibility over a very broad temperature range from -100°F to 550°F (-73°C to 288°C) in continuous service
- ▶ Putty-like consistency of **AP 280** exhibits a high degree of flexibility and adhesion while functioning as an excellent heat sink

SPECS:

- Boeing DPM 5979 (Listed on QPL)



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10-13-2023

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APPLICATIONS:

- ✓ Once the silicon resin and aluminum powder are thoroughly mixed and applied to the substrate, **AP 280** will thicken to a "putty-like" consistency.
 - ✓ Mix both components of **AP 280** completely prior to applying it to an area
 - ✓ Use spatula to apply non-curing and pressure sensitive putty/aluminum mix at about 15 mils (381 microns) thick
 - ✓ Let mix stand for 1 to 2 hours so that it gains "tack"
 - ✓ Manipulate mix to lay heater element into putty compound
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PHYSICAL PROPERTIES:

- ▶ **Dielectric Constant ASTM D150:** 2.95 @ 100 Hz, 2.90 @ 100,000 Hz
- ▶ **Dielectric Strength ASTM D 149:** 900 v/mil
- ▶ **Dissipation Factor ASTM D150:** 0.004@100 Hz, 0.003 @ 100,000 Hz
- ▶ **Flash Point:** 27°C (80°F)
- ▶ **Service Temperature:** -100°F to 550°F (-73°C to 288°C) continuous
- ▶ **Shelf Life:** The un-mixed kit has a 6 month shelf-life from the date of packaging
- ▶ **Solids:** 52% prior to mixing

Physical Properties Continued On The Next Page

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Product description:

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PHYSICAL PROPERTIES (CONTINUED FROM PAGE 2):

- ▶ **Storage Conditions:** Store in a cool, dry, and well ventilated place at a temperature between 40°F and 100°F (4°C to 38°C)
 - ▶ **Viscosity:** 5500 cps prior to mixing
 - ▶ **Volume Resistivity ASTM D257:** 4×10^{-13} OHM-CM
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AVAILABLE PACK SIZES:

- ▶ 1 oz (28 gram) Kit of Silicone Resin and Aluminum Powder Packaged in Separate Containers-008671
- ▶ 5 oz (142 gram) Kit of Silicone Resin and Aluminum Powder Packaged in Separate Containers-002788