

THERMAL SPRAY COATINGS FOR COMPOSITES

Thermal Spray Solutions offers a variety of coatings that can be applied to composite substrates. Thermal spray coatings can enhance the surface properties of composites to provide wear resistance, thermal barriers, EMI/RFI shielding, and corrosion protection.

SUBSTRATE MATERIALS

Carbon or glass fiber composites reinforced with polymer resins such as polyester, epoxy, phenolic, and vinyl ester, and some plastic substrates.

COATING MATERIALS

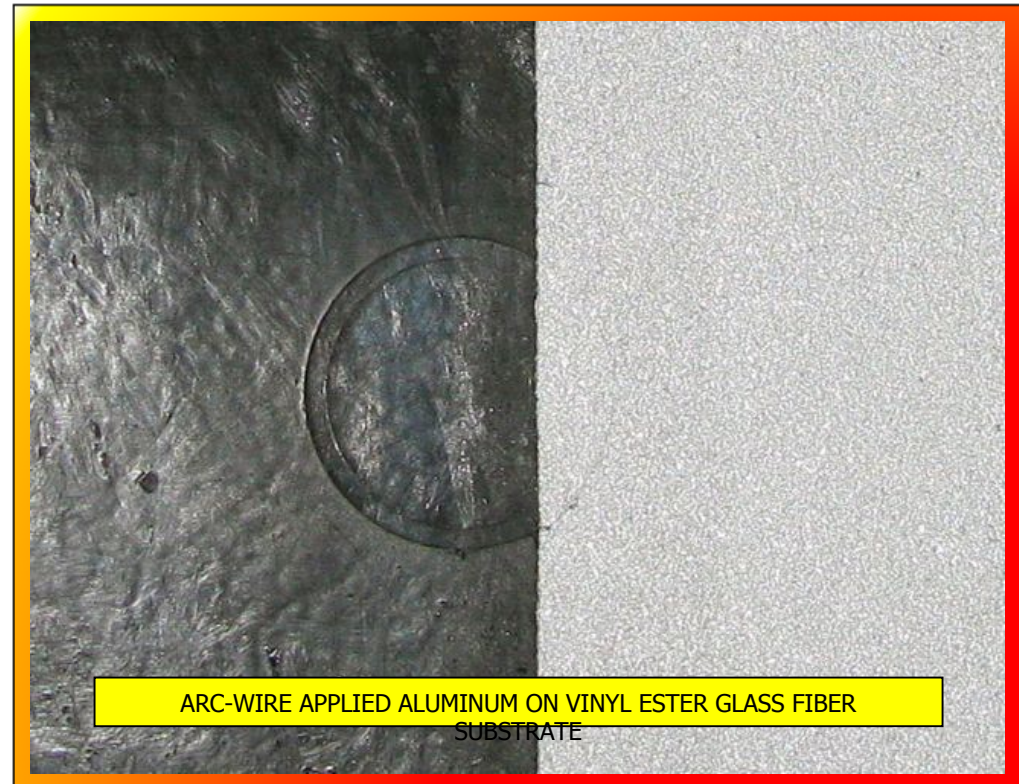
A wide variety of coating materials can be applied to composites such as aluminum, zinc, tungsten carbide, chrome oxide, aluminum oxide, and yttria-stabilized zirconia.

SPECIAL CONSIDERATIONS

- Surface Prep
- Bond Coat Material Selection
- Spray Parameters
- Finishing Techniques

THE UNIQUE CHALLENGE

The successful application of thermal spray coatings on composite substrates provides unique challenges in every step of the thermal spray process.



Department of Defense Aerospace Application

Missile Components Thermal Spray Coated With Arc-Wire Applied Aluminum As A Thermal Barrier Coating. Similar applications have received thermal spray coatings to provide EMI/RFI shielding.