

AEROSPACE AND DEFENSE

Stockwell Elastomerics has served the Aerospace and Defense Electronics industries for decades. We have grouped requirements based on recent activity as follows:

Gaskets for Defense Electronics

In response to requirements for more portability in combat support equipment, applications include battery door gaskets, cover gaskets and cushioning pads used to protect ground or vehicle mounted communications, data acquisition, radar and sensing devices. With requirements for system performance in severe weather, long term aging and EMI shielding, conditions that often push the limits of commercially available materials, silicone and fluorosilicone compounds are typically specified as gasket materials to meet these performance demands. These high performance elastomers can be compounded to be electrically conductive (EMI shielding and ESD protection) and thermally conductive.

Gaskets for Aircraft and Aerospace

Aerospace and aircraft needs for materials that resist fluids such as Jet Fuel, Skydrol and PAO, along with harsh weather and sun, often require fluorosilicone rubber. We carry a broad range of solid and sponge fluorosilicone rubber materials to support fast turn prototyping requirements for gaskets and cushioning pads.

Rocket Motor Pads

Solid Fuel Rocket motors are cushioned and protected from potential ESD build-up issues in storage and ground transportation with fabricated conductive grounding pads. Stockwell Elastomerics custom fabricates conductive grounding pads from age resistant silicone sponge rubber and carbon filled conductive silicone rubber materials. These specialty materials provide cushioning that remains consistent over a broad temperature range and retains surface conductivity for safe ESD grounding to the metal chock or carriage – even after years of sun and outdoor exposure. Our RTV60-CON conductive adhesive is provided to bond the conductive pads to ground support equipment. Contact us for samples.

These industries are a sampling of the technical markets served by Stockwell Elastomerics. We frequently assist engineers, providing prototypes and material samples for leading edge technology driven projects. Our mission is essentially helping engineers to meet their design goals.

