

# EMI/RFI Gasket Materials (2000 Series)

## Radthin Material (elastomer impregnated aluminum wire)

### Product Summary

MAJR 2000 Series Radthin Material is designated as -07 (silicone) or -05 (neoprene) at the end of the gasket part number. The material is flexible, very durable and waterproof since it is silicone or neoprene impregnated woven aluminum wire. The standard sheet thickness is 0.020 in.

The MAJRabsorber is a unique product that incorporates an internally centered electromagnetically reflective surface therefore can be used but not limited to the following:

### Product Application

The Radthin material exhibits high electrical and thermal conductivity due to woven aluminum wires that are exposed where the wires overlap. The material is also waterproof and able to withstand high temperatures due to silicone or neoprene impregnated wires. In addition, Radthin is able to withstand high compressibility due to many overlapping woven aluminum wires. Radthin is an ideal gasket material for EMI/RFI attenuation and environmental sealing between close tolerance surfaces such as RF connectors, waveguides, and machined enclosures.



### Product Technical Info

Radthin is a wire impregnated silicone or neoprene gasket material

- 24 openings per inch (OPI) woven aluminum wire
- 50 durometer silicone rubber (AMS3302D) or neoprene rubber (AMS 3222C) compound
- Material thickness is 0.020 in.
- Provides positive air and fluid sealing when compressed to 50-75 PSI of compression force
- Shielding ability is in a range of 65 to 75 for the frequency range of 100 MHz to 1 GHz.

**Note:** There are many factors that determine in application shielding levels such as compression, surface area and gasket surface interface cleanliness (all mounting surfaces should be free from any non-conductive coatings, dirt, grease or oils); the mounting surface should be cleaned with denatured alcohol prior to installation and kept clean to maintain shielding performance.