

EMI Shielding and Thermal Management

CONDUCTIVE MATERIALS

Whether you're shielding



advanced avionics,
military communications,
ruggedized computers,

medical diagnostic
equipment, or
robust search and
navigation devices,

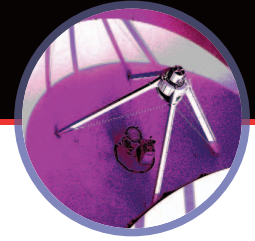


Sealing Devices can aid in

improving the sealing and
shielding of your project.



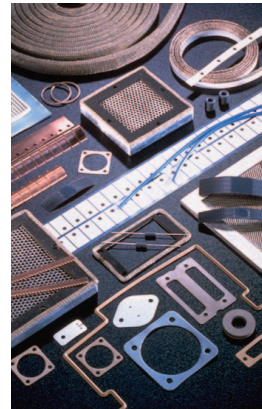
Sealing Devices Experience



Since 1963, Sealing Devices has worked with the sealing industry's leading manufacturers to source the best sealing materials and devices for every application. As our business grew, so did our commitment to meeting the growing needs of our customers. To keep pace with our rapidly changing industry, we have developed services and in-house capabilities specifically to meet the increased EMI shielding, thermal management and sealing demands of the electronics industry.

Today, we offer every customer numerous resources. Our sealing professionals have a wealth of experience with virtually every sealing material and application, along with dedication to meeting new application challenges. Every day, thousands of satisfied customers rely on our comprehensive approach that includes:

- Customer Service Support Team
- Quality Assurance/Quality Control
- Contract Manufacturing
- Spliced and Vulcanized Elastomers
- Supply Chain Management
- Manufacturing and Die Cutting
- Value-Added Engineering



Sealing Devices is your sealing products partner, offering you not only the broadest array of seal products and manufacturers, but also extensive design, fabrication and technological resources, and most important, the unmatched experience of our people. Call us for your next sealing challenge.

How much shielding do you need?



Today's high-performance electronic devices have created a growing range of EMI shielding requirements. To meet that need, Sealing Devices offers premier EMI shielding and thermal management products and solutions from Parker Chomerics

We also provide true one-call single-source capabilities, from expert design and fabrication to a streamlined order process. Exceptional service, value and the ability to meet extraordinary application challenges have made us a trusted supplier for OEM's throughout the medical, military, aerospace and commercial electronics industry.

Conductive Elastomers

Chomerics CHO-SEAL® and CHO-SIL® conductive elastomers are available in a wide range of compounds and fillers to meet your application needs. They feature excellent EMI shielding, with resistance to compression set over a wide temperature range, and also function as environmental seals.

Specialty elastomers are available for low closure force, waveguide, or corrosive environments.

Extruded elastomers are available cut-to-length in an assortment of high-demand profiles, including Hollow or Solid D, Hollow or Solid O, Hollow P, rectangular, and many others. Many forms are available with pressure sensitive adhesives (PSA) applied. **Co-extruded strips** of vulcanized conductive and non-conductive elastomers provide superior performance in aerospace, military and commercial applications.

Metals & Mesh

We offer the Chomerics line, the most comprehensive range of metal-based EMI gaskets available, including knitted wire mesh, mesh over elastomer core, oriented wires in elastomers, and metal screen- or expanded foil- impregnated elastomers.

Combo Gaskets

COMBO gasketing is recommended for applications requiring a weather seal in addition to EMI shielding. COMBO gaskets combine MESH STRIP gasketing in parallel with an integral elastomer weather-sealing strip, and are available with or without adhesive backing.

Shielded Vent Panels

Vents provide ready-to-mount EMI shielding for airflow applications. They are metal honeycomb in gasketed frames, and are for rugged, high performance applications.

Military



Aerospace/Aviation



Medical Devices



Electronic Devices & Commercial Applications



Low Closure Force Gaskets

SOFT-SHIELD® low compression force, foam based materials are designed for shielding and grounding electronic enclosures. Available in sheets, strips, profiles and die-cuts, for general duty and UL-94 V0 rated versions, profiles feature either an electrically conductive fabric jacket, or a woven mesh over a compressible foam core. Also available as a multi-planer Z-axis conductive foam sheet with integration of electrically conductive fibers in low density foam.

Form-in-Place

As one of a limited number of robotic-dispensing suppliers of Chomerics Cho-Form® Form-in-Place EMI gasketing, we offer precision dispensing of conformable gaskets in very small cross sections to free up space and eliminate waste. Gaskets can be applied in six axes and cure in minutes.

Form-in-Place seals have low compression set and offer years of effective EMI shielding and mechanical performance.

EMI Specialty Products

We offer specialty products for EMI shielding for many applications. DURALAN II™ high performance windows and filters combine exceptional optical and EMI shielding performance. Filters can be designed to incorporate EMI/RFI shielding and ESD protection. Fine wire meshes and transparent conductive materials are used for EMI/RFI shielding applications. SPRING-LINE beryllium/copper and stainless steel springfinger gaskets provide high levels of shielding. We also offer a wide selection of Chomerics suppressors, EMI ferrites and CHO-Mute™ flexible absorbers, and a variety of cable shielding products.



Contact us for other products to meet your specialty EMI shielding needs.

Elastomers for Typical Commercial Applications

Material	Filler/Binder	Typical Equipment Shielding Requirements	Remarks
CHO-SEAL 1273	Silver-plated copper in silicone	100dB	Material of choice for high-end indoor (non-corrosive) commercial applications requiring up to 100dB of shielding.
CHO-SEAL 1285	Silver-plated aluminum in fluorosilicone	95 - 100dB	Material of choice in high-end indoor and corrosive environments – higher corrosion resistance than nickel graphite.
CHO-SEAL 1287	in fluorosilicone		
CHO-SEAL S6305, 6370, 6315, 6372	Nickel-clad graphite in silicone	80 - 100dB	Best material for commercial applications requiring good performance in moderately corrosive environments; material of choice for flange finishes due to the hardness of the particles to penetrate through finishes to achieve good electrical contact. CHO-SEAL 6370 is UL94 V-O rated. CHO-SEAL 6372 is 94 V-1 rated. CHO-SEAL 6315 and CHO-SEAL 6372 are cost-effective alternatives to CHO-SEAL 6370 and CHO-SEAL S6305.
CHO-SEAL L6303	in fluorosilicone		

Elastomers for Typical Military/Aerospace Applications

Material	Filler/Binder	Typical Equipment Shielding Requirements	Remarks
CHO-SEAL 1298	Silver-plated aluminum in fluorosilicone	90 - 110dB	High performance in harshest corrosive environments; material of choice for aircraft and marine military applications; good physical properties.
CHO-SEAL 1215	Silver-plated copper in silicone	105 - 120dB	Resists highest level of EMP induced current; military gasket of choice in non-corrosive environment; excellent processing for extrusions.
CHO-SEAL 1217	in fluorosilicone		
CHO-SEAL 1285	Silver-plated copper in silicone	95 - 100dB	Military gasket of choice for corrosive environments where the high performance of CHO-SEAL 1298 is not required. Greater corrosion resistance than nickel graphite is required.
CHO-SEAL 1287	in fluorosilicone		

Sealing Devices Experience



As high performance electronics go into harsher surroundings, they require protection from a range of damaging conditions. Sealing Devices provides many specialized products to enhance the effectiveness of electronic enclosures.

- **Gore Protective Vents** guard against damage caused by internal enclosure pressure from altitude, environmental and temperature variations by allowing pressure equalization. Membranes allow air and gas to flow freely while preventing water/contaminant ingress, maintaining the enclosure seal. Vents are effective for condensation control, releasing rechargeable battery gas and protecting audio components.
- **Rogers Poron** Microcellular Urethane foams offer compression set resistance and vibration damping for gap filling, shock/vibration absorption and dust sealing. **Rogers BISCO** closed-cell silicone foams can be used when greater sealing and temperature resistance is required.
- Highly conformable and re-enterable connector seal grommets and sealing strips of **Dow Corning** Silicone Gel provide sealing protection in enclosures, and provides an effective barrier against corrosion in wet environments.
- High strength acrylic VHB Tape material from **3M** bonds with high holding strength for dynamic or static stress. The viscoelastic tapes provide a continuous bond to distribute stress over a wide area while it dampens vibration and seals against environmental conditions. Ideal for joining dissimilar materials, and reducing potential galvanic corrosion by replacing fasteners

*Superior Seals,
Exceptional Service*

 **Sealing Devices Inc.**

www.sealingdevices.com/emishielding

4400 Walden Avenue Lancaster NY 14086 800.727.3257 Fax 716.684.0760