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.

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 pressures 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.

Sealing Devices Experience

EMI Shielding and Thermal Management

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.

CONDUCTIVE MATERIALS

Superior Seals, Exceptional Service
Sealing Devices Experience

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How much shielding do you need?

Conductive Elastomers

Chomerics CHO SEAL® and CHO-SSL 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, and many others. Many forms are available with pressure sensitive adhesives (PSA) applied.

Today’s high-performance electronic devices have created a growing range of EMI shielding requirements. To meet that need, Sealing Devices offers premium 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 most application challenges have made us a trusted supplier for OEM’s throughout the medical, military, aerospace and commercial electronics industry.

Metal & 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.

Combos Gaskets

COMBO gaskets are 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.

Low Closure Force Gaskets

SOFT-SEAL® 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 foams in low density foams.

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 cured in minutes.

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 EM/RFI shielding and ESD protection. Fine wire meshed and transparent conductive materials are used for EM/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.

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<td>103dB</td>
<td>Material of choice for high-end indoor (non-corrosive) commercial applications requiring up to 105dB of shielding.</td>
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<tr>
<td>CHO-SEAL 1285</td>
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<td>95 - 100dB</td>
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<tr>
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<td>90 - 110dB</td>
<td>High performance in harsher corrosive environments; material of choice for aircraft and marine military applications; good physical properties.</td>
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<td>CHO-SEAL 1215</td>
<td>Silver-plated copper in silicone</td>
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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 including Hollow or Solid D, Hollow or Solid O, in an assortment of high-demand profiles, force, waveguide, or corrosive environments. Extruded elastomers are available cut-to-length 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.

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

Low Closure Force Gaskets
SOFT-SEAL® low compression force, foam based materials are designed for shielding and grounding electronic enclosures. Available in strips, sheets, 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-planar Z-axis conductive foam sheet with integration of electrically conductive foams in low density foams.

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 EMRFI shielding and ESD protection. Five wire meshed and transparent conductive materials are used for EMRFI shielding applications. SPRING-LINE braided copper and stainless steel springgarter 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.

Conductive Elastomers & EMI Shielding Materials for Typical Commercial Applications

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<td>Material of choice for high-end indoor and corrosive environments — higher corrosion resistance than nickel graphite</td>
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<tr>
<td>CHO-SEAL 6305, 6315, 6372</td>
<td>In fluorosilicone</td>
<td>Best material for commercial applications requiring good performance in moderately to high-end indoor environments; material of choice for flange finishes due to the hardness of the paste to penetrate through flanges to achieve good electrical contact. CHO-SEAL 6370 is UL94 V-1 rated; CHO-SEAL 6315 and CHO-SEAL 6372 are cost-effective alternatives to CHO-SEAL 6370 and CHO-SEAL 5830.</td>
</tr>
<tr>
<td>CHO-SEAL 6303</td>
<td>Nickel-clad graphite in silicone</td>
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<td>CHO-SEAL 1289</td>
<td>Silver-plated copper in silicone</td>
<td>High performance in harsh/corrosive environments; material of choice for aircraft and marine military applications; good physical properties.</td>
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<tr>
<td>CHO-SEAL 1215</td>
<td>Silver-plated copper in silicone</td>
<td>Achieves highest level of EMP induced current; military gasket of choice in non-corrosive environment; excellent processing for extrusion.</td>
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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 or solid 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.

Low Closure Force Gaskets
SOFT-SEAL® low compression force, foam based materials are designed for shielding and grounding electronic enclosures. Available in strips, sheets, 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-planar Z-axis conductive foam sheet with integration of electrically conductive foams in low density foams.

Form-in-Place Gasketing
As one of a limited number of robotic- dispensing suppliers of Chomerics ChoForm® 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.

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

Low closure force, waveguide, or corrosive environments; excellent processing for aerospace and commercial applications; material of choice for high-end indoor and corrosive environments – higher corrosion resistance than nickel graphite.

EMI Specialty Products
We offer specialty products for EMI shielding for many applications. DURALAN® II high performance windows and fittings combine exceptional optical and EMI shielding performance. Filters can be designed to incorporate EMI/RFI shielding and ESD protection. Fine wire mesh and transparent conductive materials are used for EMI/RFI shielding applications. SPRING-LINE barellumicopper 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.

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

Material Filler/Binder Typical Equipment Shielding Requirements Remarks
CHO-SEAL 1215 Silver-plated copper in silicone 105 - 120dB Material of choice for high-end indoor and corrosive environments requiring up to 105dB of shielding.
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Combo Gaskets
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