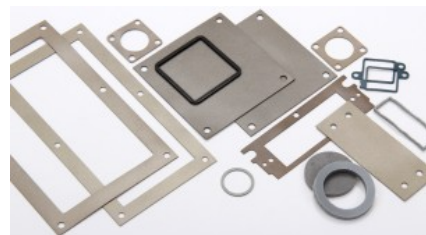




## **EMI RFI Silicones**

### **2021 CATALOG**



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# Introduction

## Benefits of SSP's EMI RFI Silicones

- Dependable environmental sealing and electrical conductivity
- Reliable EMI shielding, including many products with third-party shielding reports
- MIL-DTL-83528 tested, QPL Listed, and UL 94 compliant materials
- Shorter lead times and lower minimum order quantities (MOQs)
- Compression-molded sheet stock in various inch-based thicknesses
- Custom roll stock is available for many products and helps minimize material waste
- SSP also supplies EMI extrusions in standard shapes and bonds O-rings

SSP's EMI RFI silicones conduct electricity, resist electromagnetic interference (EMI), and provide environmental sealing. They use silicone or fluorosilicone as the base material and are filled with metal or metal-coated particles. Silicones can withstand water, ozone, ultraviolet light (UV), and a wide range of temperatures. Fluorosilicones add fuel and solvent resistance.

To provide EMI RFI shielding and electrical conductivity, SSP fills the base elastomer (a natural insulator) with silver, silver-aluminum, silver-copper, silver-glass, or nickel-glass particles. These fillers differ in terms of cost, conductivity, and maximum volume resistivity (VR) – an indirect measure of shielding effectiveness. They also differ in terms of minimum shielding performance according to MIL-STD-83528.

Balancing cost and performance is important, but many electronic designs need to meet application-specific requirements. That's why SSP's EMI RFI silicones include compounds that are softer and thinner, that reduce tearing, resist galvanic corrosion, or meet tough standards.

Specialty Silicone Products manufactures EMI RFI silicones at its Ballston Spa, New York (USA) facility and serves customers worldwide. Our elastomers support gasket fabrication through a variety of methods and can strengthen your supply chain along with your electronic designs.

The chart on the next page compares SSP's EMI RFI silicones.

## Comparison Chart for EMI RFI Silicones



Filler Material	Base Material	Cost	Max. VR (ohms/cm)	Min. Shielding Effectiveness	Major Advantage or Reason for Use
Silver-Aluminum	Silicone	\$\$\$\$	.008	20MHz to 10GHz @100dB MIL-DTL-83528	Meets MIL-DTL-83528 Type B Offsets Chomerics Choseal 1285
Silver-Aluminum	Fluorosilicone	\$\$\$\$	.012	20MHz to 10GHz @100dB MIL-DTL-83528	Meets MIL-DTL-83528 Type D Offsets Chomerics Choseal 1287/1298 Fuel and Solvent Resistance
Silver-Copper	Silicone	\$\$\$\$	.004	20MHz to 10GHz @110dB MIL-DTL-83528	Most conductive Highest shielding available
Nickel-Aluminum	Silicone	\$\$\$	.15	20MHz to 10GHz @100dB MIL-DTL-83528	Corrosion resistance Lower cost than silver-aluminum
Nickel-Aluminum	Fluorosilicone	\$\$\$	.25	20MHz to 10GHz @100dB MIL-DTL-83528	Corrosion resistance Lower cost than silver-aluminum Fuel and Solvent Resistance
Nickel-Graphite	Fluorosilicone	\$\$	.1	20MHz to 10GHz @100 dB MIL-DTL-83528	Lowest cost fluorosilicone Shielding at silver-aluminum levels No silver = price stability Fuel and solvent resistance
Nickel-Graphite	Silicone	\$	.1	20MHz to 10GHz @100 dB MIL-DTL-83528	Lowest cost silicone Shielding at silver-aluminum levels No silver = price stability



# Products


The tables in this chapter organize SSP's EMI RFI silicones by fill type and base material. Durometer is measured in Shore A. Shielding data is given in terms of Shielding Effectiveness, Volume Resistivity, Maximum VR, and/or Best-Case Attenuation Level. You'll also find information about whether specific compounds are available as sheets, rolls, extrusions, and/or ready-to-mold compounds.





This icon indicates that a third-party shielding report is available.



Nickel-Aluminum		
Silicone		
Product	Description	Shielding
SSP-2529	<p>SSP-2529 is a 68-durometer, nickel-aluminum EMI silicone that provides galvanic corrosion resistance.</p> <ul style="list-style-type: none"> <li>✓ Sheets</li> <li>✓ Extrusions</li> <li>✓ Ready-to-Mold Compounds</li> </ul>	<p>Best-Case Attenuation: 140 dB @ 800MHz (MIL-DTL-83528)</p> 
Fluorosilicone		
Product	Description	Shielding
SSP-2551	<p>SSP-2551 is a 72-durometer, nickel-aluminum EMI fluorosilicone that resists galvanic corrosion, fuels, and solvents.</p> <ul style="list-style-type: none"> <li>✓ Sheets</li> <li>✓ Extrusions</li> <li>✓ Ready-to-Mold Compounds</li> </ul>	<p>Best-Case Attenuation: 143 dB @ 200MHz (MIL-DTL-83528)</p> 


Nickel-Graphite		
Silicone		
Product	Description	Shielding
SSP-502 Series	<p>SSP-502 shielding silicones are available in a range of durometers and can be reinforced with an inner layer of conductive fabric. These EMI elastomers resist salt spray.</p> <ul style="list-style-type: none"> <li>✓ Sheets</li> <li>✓ Ready-to-Mold Compounds</li> <li>✓ Continuous Rolls for SSP-502-40, SSP-502-55, and SSP-502-65</li> <li>✓ Extrusions</li> <li>✓ Custom Molded</li> <li>✓ Bonded O-Rings</li> </ul>	<p>Available Durometers</p> <p>SSP-502-30</p> <p>SSP-502-40*</p> <p>SSP-502-55</p> <p>SSP-502-65*</p> <p>SSP-502-80</p> <p></p> <p>*Report Available</p>
SSP-502-65-CR	<p>SSP-502-65-CR is a 65-durometer nickel-graphite shielding silicone that's produced in continuous rolls up to 15-in. wide.</p> <ul style="list-style-type: none"> <li>✓ Continuous Rolls</li> <li>✓ Custom Die Cut Parts</li> </ul>	<p>Volume Resistivity: 0.1 ohms-cm</p> <p>Best-Case Attenuation: 143 dB @ 80 MHz</p> <p></p>



Nickel-Graphite		
Fluorosilicone		
Product	Description	Shielding
SSP-502F-50	<p>SSP-502F-50 is a 50-durometer nickel-graphite EMI fluorosilicone for harsh environments.</p> <ul style="list-style-type: none"> <li>✓ Sheets</li> <li>✓ Ready-to-Mold Compounds</li> <li>✓ Continuous Rolls for some iterations</li> <li>✓ Extrusions</li> <li>✓ Custom Molded</li> <li>✓ Bonded O-Rings</li> </ul>	<p>Best-Case Attenuation: &gt; 130.8 dB @ 100 MHz</p> 
SSP-502F-60	<p>SSP-502F-60 is a 60-durometer nickel-graphite EMI fluorosilicone for harsh environments.</p> <ul style="list-style-type: none"> <li>✓ Sheets</li> <li>✓ Ready-to-Mold Compounds</li> <li>✓ Continuous Rolls for some iterations</li> <li>✓ Extrusions</li> <li>✓ Custom Molded</li> <li>✓ Bonded O-Rings</li> </ul>	<p>Shielding Effectiveness: MIL-DTL-83528 20 MHz to 10 GHz Typical Values &gt;113 dB</p>
SSP-502F-80	<p>SSP-502F-80 is an 80-durometer nickel-graphite EMI fluorosilicone for harsh environments.</p> <ul style="list-style-type: none"> <li>✓ Sheets</li> <li>✓ Extrusions</li> <li>✓ Ready-to-Mold Compounds</li> <li>✓ Continuous Rolls</li> </ul>	<p>Shielding Effectiveness: MIL-DTL-83528 20 MHz to 10 GHz Typical Values &gt;113 dB</p>


Nickel-Graphite		
Fabric Reinforced Silicone		
Product	Description	Shielding
SSP-502-65-020-Composite-NG-1	<p>SSP-502-65-020 Composite-NG-1 is a 65-durometer, nickel-graphite silicone that's reinforced with an inner layer of conductive fabric and available in rolls up to 15 inches wide.</p> <p>✓ Continuous Rolls</p>	<p>Best-Case Attenuation: 136.1 dB @ 80 MHz</p> 
SSP-502-65-032-Composite-NG-1	<p>SSP-502-65-032 Composite-NG-1 is a 65-durometer, nickel-graphite silicone that's reinforced with an internal nickel-coated mesh.</p> <p>✓ Continuous Rolls</p>	<p>Best-Case Attenuation: 136.1 dB @ 100 MHz</p> 



<b>Nickel-Graphite</b>		
<b>Flame Retardant Silicone</b>		
<b>Product</b>	<b>Description</b>	<b>Shielding</b>
SSP-502-40-V0	<p>SSP-502-40-V0 is a 40-durometer, nickel-graphite, flame-retardant shielding silicone that conforms to UL-94 V0. Use instead of GORE GS2100.</p> <ul style="list-style-type: none"> <li>✓ Sheets</li> <li>✓ Ready-to-Mold Compounds</li> <li>✓ Continuous Rolls for some iterations</li> <li>✓ Custom Molded</li> </ul>	<p>Best-Case Attenuation: 144 dB @ 200 MHz</p> 
SSP-502-60-V0	<p>SSP-502-60-V0 is a 60-durometer, nickel-graphite, flame-retardant shielding silicone that conforms to UL 94 V0. Use instead of GORE GS5200.</p> <ul style="list-style-type: none"> <li>✓ Sheets</li> <li>✓ Ready-to-Mold Compounds</li> <li>✓ Continuous Rolls for some iterations</li> <li>✓ Custom Molded</li> </ul>	<p>Best-Case Attenuation: 146 dB @ 200 MHz</p> 

Silver-Aluminum		
Silicone		
Product	Description	Shielding
SSP-2368-65	<p>SSP-2368-65 is a 65-durometer, silver-aluminum silicone that's designed to meet MIL-G-83528 Type B requirements.</p> <ul style="list-style-type: none"> <li>✓ Sheets</li> <li>✓ Ready-to-Mold Compounds</li> <li>✓ Continuous Rolls for some iterations</li> <li>✓ Extrusions</li> <li>✓ Custom Molded</li> <li>✓ Bonded O-Rings</li> </ul>	<p>Best-Case Attenuation: 148 @ 100 MHz</p> 

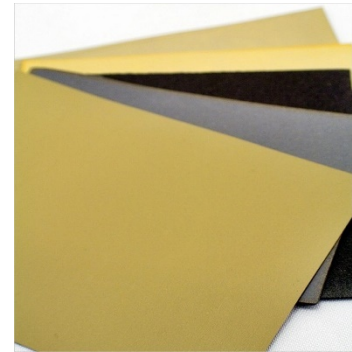
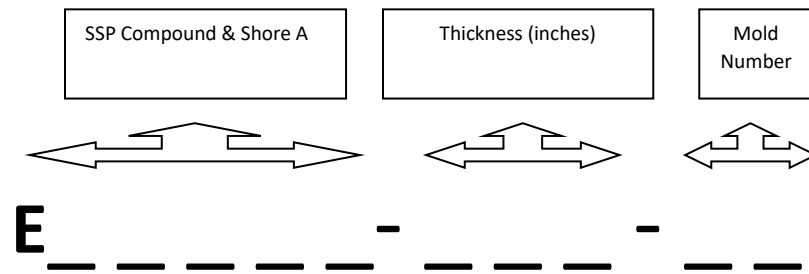
Silver-Aluminum		
Fluorosilicone		
Product	Description	Shielding
SSP-550-45	<p>SSP-550-45 is a 45-durometer, electrically-conductive, silver-aluminum shielding fluorosilicone that is designed to meet MIL-DTL-83528 Type D.</p> <ul style="list-style-type: none"> <li>✓ Sheets</li> <li>✓ Ready-to-Mold Compounds</li> <li>✓ Rolls in some Iterations</li> </ul>	<p>Best-Case Attenuation: 137.8 dB @ 80 MHz</p> 
SSP-2486-70	<p>SSP-2486-70 is a 70-durometer, electrically-conductive, silver-aluminum shielding fluorosilicone that meets MIL-DTL-83528 Type D and is QPL listed.</p> <ul style="list-style-type: none"> <li>✓ Sheets</li> <li>✓ Extrusions</li> <li>✓ Ready-to-Mold Compounds</li> <li>✓ Rolls in some iterations</li> </ul>	<p>Best-Case Attenuation: 137.4 dB @ 80 MHz</p> 
SSP-550-70 Passivated	<p>SSP-550-70 Passivated is a 70-durometer, electrically-conductive, silver-aluminum shielding fluorosilicone that meets MIL-DTL-83528 Type D.</p> <ul style="list-style-type: none"> <li>✓ Sheets</li> <li>✓ Ready-to-Mold Compounds</li> <li>✓ Rolls in some Iterations</li> </ul>	<p>Shielding Effectiveness: MIL-DTL-83528 20 MHz to 10 GHz Typical Values &gt; 125 dB</p>

Silver-Copper		
Silicone		
Product	Description	Shielding
SSP-547-65	<p>SSP-547-65 is a 65-durometer, silver-copper silicone that's designed to meet MIL-DTL-83528 Type A requirements.</p> <ul style="list-style-type: none"> <li>✓ Sheets</li> <li>✓ Ready-to-Mold Compounds</li> <li>✓ Custom Molded</li> </ul>	<p>Best Case Attenuation: 144 dB @ 80 MHz</p> 
SSP-553-80	<p>SSP-553-80 is a 65-durometer, silver-copper silicone that's designed to meet MIL-DTL-83528 Type K requirements.</p> <ul style="list-style-type: none"> <li>✓ Sheets</li> <li>✓ Extrusions</li> <li>✓ Ready-to-Mold Compounds</li> </ul>	<p>Volume Resistivity: 0.005 ohm/cm max.</p>

# Sheet Stock

Specialty Silicone Products (SSP) supplies EMI RFI silicones as compression-molded sheets in standard and custom sizes. Part numbers for sheets begin with the letter **E** and contain increments that indicate the SSP compound and durometer (Shore A), thickness, and mold number.

This diagram explains.



Sheets with pressure-sensitive adhesives (PSAs) are available by request. There are two PSA choices: conductive acrylic and conductive silicone. When ordering sheets with PSAs, add the appropriate lettered code to the end of the part number.

- CAPSA = Conductive Acrylic PSA
- CSPA = Conductive Silicone PSA

The following table lists standard products with mold dimensions.

PART NUMBER	DESCRIPTION
<b>15 x 20 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE 30 DUROMETER</b>
E50230-032-S03	30 SHORE A NICKEL GRAPHITE FILLED SHEET .032" THICK
E50230-040-S03	30 SHORE A NICKEL GRAPHITE FILLED SHEET .040" THICK
E50230-062-S03	30 SHORE A NICKEL GRAPHITE FILLED SHEET .062" THICK
E50230-093-S03	30 SHORE A NICKEL GRAPHITE FILLED SHEET .093" THICK
E50230-125-S03	30 SHORE A NICKEL GRAPHITE FILLED SHEET .125" THICK
<b>10 x 20 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE 30 DUROMETER</b>
E50230-032-S10	30 SHORE A NICKEL GRAPHITE FILLED SHEET .032" THICK
E50230-045-S10	30 SHORE A NICKEL GRAPHITE FILLED SHEET .045" THICK
E50230-062-S10	30 SHORE A NICKEL GRAPHITE FILLED SHEET .062" THICK

PART NUMBER	DESCRIPTION
E50230-080-S10	30 SHORE A NICKEL GRAPHITE FILLED SHEET .080" THICK
E50230-125-S10	30 SHORE A NICKEL GRAPHITE FILLED SHEET .125" THICK
<b>15 x 20 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE 40 DUROMETER</b>
E50240-010-S03	40 SHORE A NICKEL GRAPHITE FILLED SHEET .010" THICK
E50240-015-S03	40 SHORE A NICKEL GRAPHITE FILLED SHEET .015" THICK
E50240-020-S03	40 SHORE A NICKEL GRAPHITE FILLED SHEET .020" THICK
E50240-032-S03	40 SHORE A NICKEL GRAPHITE FILLED SHEET .032" THICK
E50240-040-S03	40 SHORE A NICKEL GRAPHITE FILLED SHEET .040" THICK
E50240-062-S03	40 SHORE A NICKEL GRAPHITE FILLED SHEET .062" THICK
E50240-093-S03	40 SHORE A NICKEL GRAPHITE FILLED SHEET .093" THICK
E50240-125-S03	40 SHORE A NICKEL GRAPHITE FILLED SHEET .125" THICK
E50240-160-S03	40 SHORE A NICKEL GRAPHITE FILLED SHEET .160" THICK
E50240-188-S03	40 SHORE A NICKEL GRAPHITE FILLED SHEET .188" THICK
E50240-250-S03	40 SHORE A NICKEL GRAPHITE FILLED SHEET .250" THICK
<b>10 x 20 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE 40 DUROMETER</b>
E50240-032-S10	30 SHORE A NICKEL GRAPHITE FILLED SHEET .032" THICK
E50240-045-S10	30 SHORE A NICKEL GRAPHITE FILLED SHEET .045" THICK
E50240-062-S10	30 SHORE A NICKEL GRAPHITE FILLED SHEET .062" THICK
E50240-080-S10	30 SHORE A NICKEL GRAPHITE FILLED SHEET .080" THICK
E50240-125-S10	30 SHORE A NICKEL GRAPHITE FILLED SHEET .125" THICK
<b>12 x 12 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE 40 DUROMETER</b>
E50240-032-S01	40 SHORE A NICKEL GRAPHITE FILLED SHEET .032" THICK
E50240-040-S01	40 SHORE A NICKEL GRAPHITE FILLED SHEET .040" THICK
E50240-062-S01	40 SHORE A NICKEL GRAPHITE FILLED SHEET .062" THICK
E50240-100-S01	40 SHORE A NICKEL GRAPHITE FILLED SHEET .100" THICK
E50240-125-S01	40 SHORE A NICKEL GRAPHITE FILLED SHEET .125" THICK

PART NUMBER	DESCRIPTION
E50240-137-S01	40 SHORE A NICKEL GRAPHITE FILLED SHEET .137" THICK
E50240-160-S01	40 SHORE A NICKEL GRAPHITE FILLED SHEET .160" THICK
<b>10 x 10 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE 40 DUROMETER</b>
E50240-015-S04	40 SHORE A NICKEL GRAPHITE FILLED SHEET .015" THICK
E50240-040-S04	40 SHORE A NICKEL GRAPHITE FILLED SHEET .040" THICK
<b>15 x 20 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE UL-94 V0 COMPLIANT (FLAME RETARDANT) 40 DUROMETER</b>
E50240V0-010-S03	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .010" THICK
E50240V0-015-S03	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .015" THICK
E50240V0-020-S03	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .020" THICK
E50240V0-032-S03	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .032" THICK
E50240V0-040-S03	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .040" THICK
E50240V0-062-S03	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .062" THICK
E50240V0-093-S03	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .093" THICK
E50240V0-125-S03	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .125" THICK
E50240V0-160-S03	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .160" THICK
E50240V0-188-S03	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .188" THICK
E50240V0-250-S03	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .250" THICK
<b>10 x 20 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE UL-94 V0 COMPLIANT (FLAME RETARDANT) 40 DUROMETER</b>
E50240V0-032-S10	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .032" THICK
E50240V0-045-S10	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .045" THICK
E50240V0-062-S10	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .062" THICK
E50240V0-080-S10	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .080" THICK
E50240V0-125-S10	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .125" THICK

PART NUMBER	DESCRIPTION
<b>12 x 12 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE UL-94 V0 COMPLIANT (FLAME RETARDANT) 40 DUROMETER</b>
E50240V0-032-S01	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .032" THICK
E50240V0-040-S01	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .040" THICK
E50240V0-062-S01	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .062" THICK
E50240V0-100-S01	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .100" THICK
E50240V0-125-S01	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .125" THICK
E50240V0-137-S01	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .137" THICK
E50240V0-160-S01	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .160" THICK
<b>10 x 10 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE UL-94 V0 COMPLIANT (FLAME RETARDANT) 40 DUROMETER</b>
E50240V0-015-S04	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .015" THICK
E50240V0-040-S04	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .040" THICK
<b>15 x 20 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE 55 DUROMETER</b>
E50255-010-S03	55 SHORE A NICKEL GRAPHITE FILLED SHEET .010" THICK
E50255-015-S03	55 SHORE A NICKEL GRAPHITE FILLED SHEET .015" THICK
E50255-020-S03	55 SHORE A NICKEL GRAPHITE FILLED SHEET .020" THICK
E50255-032-S03	55 SHORE A NICKEL GRAPHITE FILLED SHEET .032" THICK
E50255-040-S03	55 SHORE A NICKEL GRAPHITE FILLED SHEET .040" THICK
E50255-062-S03	55 SHORE A NICKEL GRAPHITE FILLED SHEET .062" THICK
E50255-093-S03	55 SHORE A NICKEL GRAPHITE FILLED SHEET .093" THICK
E50255-125-S03	55 SHORE A NICKEL GRAPHITE FILLED SHEET .125" THICK
E50255-160-S03	55 SHORE A NICKEL GRAPHITE FILLED SHEET .160" THICK
E50255-188-S03	55 SHORE A NICKEL GRAPHITE FILLED SHEET .188" THICK
E50255-250-S03	55 SHORE A NICKEL GRAPHITE FILLED SHEET .250" THICK



<b>PART NUMBER</b>	<b>DESCRIPTION</b>
<b>10 x 20 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE 55 DUROMETER</b>
E50255-032-S10	55 SHORE A NICKEL GRAPHITE FILLED SHEET .032" THICK
E50255-045-S10	55 SHORE A NICKEL GRAPHITE FILLED SHEET .045" THICK
E50255-062-S10	55 SHORE A NICKEL GRAPHITE FILLED SHEET .062" THICK
E50255-080-S10	55 SHORE A NICKEL GRAPHITE FILLED SHEET .080" THICK
E50255-125-S10	55 SHORE A NICKEL GRAPHITE FILLED SHEET .125" THICK
<b>12 x 12 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE 55 DUROMETER</b>
E50255-032-S01	55 SHORE A NICKEL GRAPHITE FILLED SHEET .032" THICK
E50255-040-S01	55 SHORE A NICKEL GRAPHITE FILLED SHEET .040" THICK
E50255-062-S01	55 SHORE A NICKEL GRAPHITE FILLED SHEET .062" THICK
E50255-100-S01	55 SHORE A NICKEL GRAPHITE FILLED SHEET .100" THICK
E50255-125-S01	55 SHORE A NICKEL GRAPHITE FILLED SHEET .125" THICK
E50255-137-S01	55 SHORE A NICKEL GRAPHITE FILLED SHEET .137" THICK
E50255-160-S01	55 SHORE A NICKEL GRAPHITE FILLED SHEET .160" THICK
<b>10 x 10 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE 55 DUROMETER</b>
E50255-015-S04	55 SHORE A NICKEL GRAPHITE FILLED SHEET .015" THICK
E50255-040-S04	55 SHORE A NICKEL GRAPHITE FILLED SHEET .040" THICK
<b>15 x 20 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE UL-94 V0 COMPLIANT (FLAME RETARDANT) 60 DUROMETER</b>
E50260V0-010-S03	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .010" THICK
E50260V0-015-S03	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .015" THICK
E50260V0-020-S03	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .020" THICK
E50260V0-032-S03	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .032" THICK
E50260V0-040-S03	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .040" THICK
E50260V0-062-S03	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .062" THICK

PART NUMBER	DESCRIPTION
E50260V0-093-S03	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .093" THICK
E50260V0-125-S03	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .125" THICK
E50260V0-160-S03	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .160" THICK
E50260V0-188-S03	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .188" THICK
E50260V0-250-S03	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .250" THICK
<b>10 x 20 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE UL-94 V0 COMPLIANT (FLAME RETARDANT) 60 DUROMETER</b>
E50260V0-032-S10	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .032" THICK
E50260V0-045-S10	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .045" THICK
E50260V0-062-S10	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .062" THICK
E50260V0-080-S10	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .080" THICK
E50260V0-125-S10	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .125" THICK
<b>12 x 12 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE UL-94 V0 COMPLIANT (FLAME RETARDANT) 60 DUROMETER</b>
E50260V0-032-S01	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .032" THICK
E50260V0-040-S01	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .040" THICK
E50260V0-062-S01	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .062" THICK
E50260V0-100-S01	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .100" THICK
E50260V0-125-S01	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .125" THICK
E50260V0-137-S01	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .137" THICK
E50260V0-160-S01	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .160" THICK
<b>10 x 10 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE UL-94 V0 COMPLIANT (FLAME RETARDANT) 60 DUROMETER</b>
E50260V0-015-S04	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .015" THICK
E50260V0-040-S04	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT SHEET .040" THICK
<b>15 x 20 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE 65 DUROMETER</b>

PART NUMBER	DESCRIPTION
E50265-010-S03	65 SHORE A NICKEL GRAPHITE FILLED SHEET .010" THICK
E50265-015-S03	65 SHORE A NICKEL GRAPHITE FILLED SHEET .015" THICK
E50265-020-S03	65 SHORE A NICKEL GRAPHITE FILLED SHEET .020" THICK
E50265-032-S03	65 SHORE A NICKEL GRAPHITE FILLED SHEET .032" THICK
E50265-040-S03	65 SHORE A NICKEL GRAPHITE FILLED SHEET .040" THICK
E50265-062-S03	65 SHORE A NICKEL GRAPHITE FILLED SHEET .062" THICK
E50265-093-S03	65 SHORE A NICKEL GRAPHITE FILLED SHEET .093" THICK
E50265-125-S03	65 SHORE A NICKEL GRAPHITE FILLED SHEET .125" THICK
E50265-160-S03	65 SHORE A NICKEL GRAPHITE FILLED SHEET .160" THICK
E50265-188-S03	65 SHORE A NICKEL GRAPHITE FILLED SHEET .188" THICK
E50265-250-S03	65 SHORE A NICKEL GRAPHITE FILLED SHEET .250" THICK
<b>10 x 20 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE 65 DUROMETER</b>
E50265-032-S10	65 SHORE A NICKEL GRAPHITE FILLED SHEET .032" THICK
E50265-045-S10	65 SHORE A NICKEL GRAPHITE FILLED SHEET .045" THICK
E50265-062-S10	65 SHORE A NICKEL GRAPHITE FILLED SHEET .062" THICK
E50265-080-S10	65 SHORE A NICKEL GRAPHITE FILLED SHEET .080" THICK
E50265-125-S10	65 SHORE A NICKEL GRAPHITE FILLED SHEET .124" THICK
<b>12 x 12 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE 65 DUROMETER</b>
E50265-032-S01	65 SHORE A NICKEL GRAPHITE FILLED SHEET .032" THICK
E50265-040-S01	65 SHORE A NICKEL GRAPHITE FILLED SHEET .040" THICK
E50265-062-S01	65 SHORE A NICKEL GRAPHITE FILLED SHEET .062" THICK
E50265-100-S01	65 SHORE A NICKEL GRAPHITE FILLED SHEET .100" THICK
E50265-125-S01	65 SHORE A NICKEL GRAPHITE FILLED SHEET .125" THICK
E50265-137-S01	65 SHORE A NICKEL GRAPHITE FILLED SHEET .137" THICK
E50265-160-S01	65 SHORE A NICKEL GRAPHITE FILLED SHEET .160" THICK
<b>10 x 10 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE SILICONE 65 DUROMETER</b>

PART NUMBER	DESCRIPTION
E50265-015-S04	65 SHORE A NICKEL GRAPHITE FILLED SHEET .015" THICK
E50265-040-S04	65 SHORE A NICKEL GRAPHITE FILLED SHEET .040" THICK
<b>15 x 20 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE FLUOROSILICONE 60 DUROMETER</b>
E502F60-010-S03	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .010" THICK
E502F60-015-S03	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .015" THICK
E502F60-020-S03	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .020" THICK
E502F60-032-S03	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .032" THICK
E502F60-040-S03	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .040" THICK
E502F60-062-S03	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .062" THICK
E502F60-093-S03	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .093" THICK
E502F60-125-S03	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .125" THICK
E502F60-160-S03	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .160" THICK
E502F60-188-S03	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .188" THICK
E502F60-250-S03	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .250" THICK
<b>10 x 20 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE FLUOROSILICONE 60 DUROMETER</b>
E502F60-032-S10	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .032" THICK
E502F60-045-S10	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .045" THICK
E502F60-062-S10	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .062" THICK
E502F60-080-S10	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .080" THICK
E502F60-125-S10	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .125" THICK
<b>12 x 12 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE FLUOROSILICONE 60 DUROMETER</b>
E502F60-032-S01	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .032" THICK
E502F60-040-S01	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .040" THICK
E502F60-062-S01	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .062" THICK
E502F60-100-S01	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .100" THICK
E502F60-125-S01	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .125" THICK

PART NUMBER	DESCRIPTION
E502F60-137-S01	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .137" THICK
E502F60-160-S01	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .160" THICK
<b>10 x 10 MOLD DIMENSION</b>	<b>NICKEL-GRAPHITE FLUOROSILICONE 60 DUROMETER</b>
E502F60-015-S04	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .015" THICK
E502F60-040-S04	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE SHEET .040" THICK
<b>15 x 20 MOLD DIMENSION</b>	<b>NICKEL-ALUMINUM SILICONE GALVANIC CORROSION RESISTANT 68 DUROMETER</b>
E2529-020-S03	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .020" THICK
E2529-032-S03	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET.032" THICK
E2529-040-S03	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET.040" THICK
E2529-062-S03	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET.062" THICK
E2529-093-S03	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET.093" THICK
E2529-125-S03	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET.125" THICK
E2529-160-S03	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .160" THICK
E2529-188-S03	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET.188" THICK
E2529-250-S03	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .250" THICK
<b>10 x 20 MOLD DIMENSION</b>	<b>NICKEL-ALUMINUM SILICONE GALVANIC CORROSION RESISTANT 68 DUROMETER</b>
E2529-020-S10	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .020" THICK
E2529-032-S10	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET.032" THICK
E2529-040-S10	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET.040" THICK
E2529-062-S10	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET.062" THICK
E2529-093-S10	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET.093" THICK
E2529-125-S10	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET.125" THICK
E2529-160-S10	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .160" THICK
E2529-188-S10	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET.188" THICK

PART NUMBER	DESCRIPTION
E2529-250-S10	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .250" THICK
<b>10 x 10 MOLD DIMENSION</b>	<b>NICKEL-ALUMINUM SILICONE GALVANIC CORROSION RESISTANT 68 DUROMETER</b>
E2529-020-S04	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .020" THICK
E2529-032-S04	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .032" THICK
E2529-040-S04	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .040" THICK
E2529-062-S04	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .062" THICK
E2529-093-S04	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .093" THICK
E2529-125-S04	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .125" THICK
E2529-160-S04	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .160" THICK
E2529-188-S04	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .188" THICK
E2529-250-S04	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .250" THICK
E2529-020-S04	68 SHORE A NICKEL ALUMINUM FILLED GALVANIC CORROSION RESISTANT SHEET .020" THICK
<b>15 x 20 MOLD DIMENSION</b>	<b>SILVER-ALUMINUM SILICONE FULL CERTIFICATION TO MIL-DTL-83528, TYPE B 65 DUROMETER</b>
E236865DB-015-S03	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .015" THICK
E236865DB-020-S03	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .020" THICK
E236865DB-032-S03	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .032" THICK
E236865DB-040-S03	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .040" THICK
E236865DB-062-S03	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .062" THICK
E236865DB-093-S03	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .093" THICK
E236865DB-125-S03	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .125" THICK
E236865DB-160-S03	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .160" THICK
E236865DB-188-S03	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .188" THICK
E236865DB-250-S03	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .250" THICK
<b>10 x 20 MOLD DIMENSION</b>	<b>SILVER-ALUMINUM SILICONE FULL CERTIFICATION TO MIL-DTL-83528, TYPE B 65 DUROMETER</b>

PART NUMBER	DESCRIPTION
E236865DB-032-S10	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .032" THICK
E236865DB-045-S10	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .045" THICK
E236865DB-062-S10	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .062" THICK
E236865DB-080-S10	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .080" THICK
E236865DB-125-S10	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .125" THICK
<b>12 x 12 MOLD DIMENSION</b>	<b>SILVER-ALUMINUM SILICONE 65 DUROMETER</b>
E236865DB-032-S01	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .032" THICK
E236865DB-040-S01	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .040" THICK
E236865DB-062-S01	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .062" THICK
E236865DB-100-S01	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .100" THICK
E236865DB-125-S01	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .125" THICK
E236865DB-137-S01	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .137" THICK
E236865DB-160-S01	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .160" THICK
<b>10 x 10 MOLD DIMENSION</b>	<b>SILVER-ALUMINUM SILICONE 65 DUROMETER</b>
E236865DB-015-S04	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .015" THICK
E236865DB-040-S04	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .040" THICK
<b>15 x 20 MOLD DIMENSION</b>	<b>SILVER-ALUMINUM FLUROSILICONE 45 DUROMETER</b>
E55045-015-S03	45 SHORE A SILVER ALUMINUM FILLED FLUROSILICONE SHEET .015" THICK
E55045-020-S03	45 SHORE A SILVER ALUMINUM FILLED FLUROSILICONE SHEET .020" THICK
E55045-032-S03	45 SHORE A SILVER ALUMINUM FILLED FLUROSILICONE SHEET .032" THICK
E55045-040-S03	45 SHORE A SILVER ALUMINUM FILLED FLUROSILICONE SHEET .040" THICK
E55045-062-S03	45 SHORE A SILVER ALUMINUM FILLED FLUROSILICONE SHEET .062" THICK
E55045-093-S03	45 SHORE A SILVER ALUMINUM FILLED FLUROSILICONE SHEET .093" THICK
E55045-125-S03	45 SHORE A SILVER ALUMINUM FILLED FLUROSILICONE SHEET .125" THICK
<b>10 x 20 MOLD DIMENSION</b>	<b>SILVER-ALUMINUM FLUROSILICONE 45 DUROMETER</b>

PART NUMBER	DESCRIPTION
E55045-032-S10	45 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE SHEET .032" THICK
E55045-045-S10	45 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE SHEET .045" THICK
E55045-062-S10	45 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE SHEET .062" THICK
E55045-080-S10	45 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE SHEET .080" THICK
E55045-125-S10	45 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE SHEET .125" THICK
<b>12 x 12 MOLD DIMENSION</b>	<b>SILVER-ALUMINUM FLUROSILICONE 45 DUROMETER</b>
E55045-032-S01	45 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE SHEET .032" THICK
E55045-040-S01	45 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE SHEET .040" THICK
E55045-062-S01	45 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE SHEET .062" THICK
E55045-100-S01	45 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE SHEET .100" THICK
E55045-125-S01	45 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE SHEET .125" THICK
E55045-137-S01	45 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE SHEET .137" THICK
E55045-160-S01	45 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE SHEET .160" THICK
<b>10 x 10 MOLD DIMENSION</b>	<b>SILVER-ALUMINUM FLUROSILICONE 45 DUROMETER</b>
E55045-015-S04	45 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE SHEET .015" THICK
E55045-040-S04	45 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE SHEET .040" THICK
<b>15 x 20 MOLD DIMENSION</b>	<b>SILVER-COPPER SILICONE 65 SHORE A</b>
E54765-010-S03	65 SHORE A SILVER COPPER FILLED SHEET .010" THICK
E54765-015-S03	65 SHORE A SILVER COPPER FILLED SHEET .015" THICK
E54765-020-S03	65 SHORE A SILVER COPPER FILLED SHEET .020" THICK
E54765-032-S03	65 SHORE A SILVER COPPER FILLED SHEET .032" THICK
E54765-040-S03	65 SHORE A SILVER COPPER FILLED SHEET .040" THICK
E54765-062-S03	65 SHORE A SILVER COPPER FILLED SHEET .062" THICK
E54765-093-S03	65 SHORE A SILVER COPPER FILLED SHEET .093" THICK
E54765-125-S03	65 SHORE A SILVER COPPER FILLED SHEET .125" THICK
E54765-160-S03	65 SHORE A SILVER COPPER FILLED SHEET .160" THICK



PART NUMBER	DESCRIPTION
E54765-188-S03	65 SHORE A SILVER COPPER FILLED SHEET .188" THICK
E54765-250-S03	65 SHORE A SILVER COPPER FILLED SHEET .250" THICK
<b>10 x 20 MOLD DIMENSION</b>	<b>SILVER-COPPER SILICONE 65 SHORE A</b>
E54765-032-S10	65 SHORE A SILVER COPPER FILLED SHEET .032" THICK
E54765-045-S10	65 SHORE A SILVER COPPER FILLED SHEET .045" THICK
E54765-062-S10	65 SHORE A SILVER COPPER FILLED SHEET .062" THICK
E54765-080-S10	65 SHORE A SILVER COPPER FILLED SHEET .080" THICK
E54765-125-S10	65 SHORE A SILVER COPPER FILLED SHEET .125" THICK
<b>12 x 12 MOLD DIMENSION</b>	<b>SILVER-COPPER SILICONE 65 DUROMETER</b>
E54765-032-S01	65 SHORE A SILVER COPPER FILLED SHEET .032" THICK
E54765-040-S01	65 SHORE A SILVER COPPER FILLED SHEET .040" THICK
E54765-062-S01	65 SHORE A SILVER COPPER FILLED SHEET .062" THICK
E54765-100-S01	65 SHORE A SILVER COPPER FILLED SHEET .100" THICK
E54765-125-S01	65 SHORE A SILVER COPPER FILLED SHEET .125" THICK
E54765-137-S01	65 SHORE A SILVER COPPER FILLED SHEET .137" THICK
E54765-160-S01	65 SHORE A SILVER COPPER FILLED SHEET .160" THICK
<b>10 x 10 MOLD DIMENSION</b>	<b>SILVER-COPPER SILICONE 65 DUROMETER</b>
E54765-015-S04	65 SHORE A SILVER COPPER FILLED SHEET .015" THICK
E54765-040-S04	65 SHORE A SILVER COPPER FILLED SHEET .040" THICK
<b>15 x 20 MOLD DIMENSION</b>	<b>SILVER-COPPER SILICONE 80 DUROMETER</b>
E55380-010-S03	80 SHORE A SILVER COPPER FILLED SHEET .010" THICK
E55380-015-S03	80 SHORE A SILVER COPPER FILLED SHEET .015" THICK
E55380-020-S03	80 SHORE A SILVER COPPER FILLED SHEET .020" THICK
E55380-032-S03	80 SHORE A SILVER COPPER FILLED SHEET .032" THICK
E55380-040-S03	80 SHORE A SILVER COPPER FILLED SHEET .040" THICK

PART NUMBER	DESCRIPTION
E55380-062-S03	80 SHORE A SILVER COPPER FILLED SHEET .062" THICK
E55380-093-S03	80 SHORE A SILVER COPPER FILLED SHEET .093" THICK
E55380-125-S03	80 SHORE A SILVER COPPER FILLED SHEET .125" THICK
E55380-160-S03	80 SHORE A SILVER COPPER FILLED SHEET .160" THICK
E55380-188-S03	80 SHORE A SILVER COPPER FILLED SHEET .188" THICK
E55380-250-S03	80 SHORE A SILVER COPPER FILLED SHEET .250" THICK
<b>10 x 20 MOLD DIMENSION</b>	<b>SILVER-COPPER SILICONE 80 DUROMETER</b>
E55380-032-S10	80 SHORE A SILVER COPPER FILLED SHEET .032" THICK
E55380-045-S10	80 SHORE A SILVER COPPER FILLED SHEET .045" THICK
E55380-062-S10	80 SHORE A SILVER COPPER FILLED SHEET .062" THICK
E55380-080-S10	80 SHORE A SILVER COPPER FILLED SHEET .080" THICK
E55380-125-S10	80 SHORE A SILVER COPPER FILLED SHEET .125" THICK
<b>12 x 12 MOLD DIMENSION</b>	<b>SILVER-COPPER SILICONE 80 DUROMETER</b>
E55380-032-S01	80 SHORE A SILVER COPPER FILLED SHEET .032" THICK
E55380-040-S01	80 SHORE A SILVER COPPER FILLED SHEET .040" THICK
E55380-062-S01	80 SHORE A SILVER COPPER FILLED SHEET .062" THICK
E55380-100-S01	80 SHORE A SILVER COPPER FILLED SHEET .100" THICK
E55380-125-S01	80 SHORE A SILVER COPPER FILLED SHEET .125" THICK
E55380-137-S01	80 SHORE A SILVER COPPER FILLED SHEET .137" THICK
E55380-160-S01	80 SHORE A SILVER COPPER FILLED SHEET .160" THICK
<b>10 x 10 MOLD DIMENSION</b>	<b>SILVER-COPPER SILICONE 80 DUROMETER</b>
E55380-015-S04	80 SHORE A SILVER COPPER FILLED SHEET .015" THICK
E55380-040-S04	80 SHORE A SILVER COPPER FILLED SHEET .040" THICK

## White Paper: Sheet Stock vs. Molding for EMI Frame Gaskets

Compare cutting and bonding sheet stock to SSP's molding services.

### Molding Reduces Costs, Increases Yields, and Supports Low-Volume Production



Conductive elastomers that are made of silicones and filled with metal particles provide environmental sealing, electrical conductivity, and resistance to electromagnetic interference (EMI). These sealing and shielding elastomers are great for EMI gaskets, but engineers need to select the right materials and use the most cost-effective fabrication method.

That's especially important because conductive elastomers are significantly more expensive than commodity rubber.

Specialty Silicone Products (SSP) of Ballston Spa, New York (USA) makes conductive elastomers that use silicone or fluorosilicone as the base material and contain nickel-coated graphite, nickel-coated aluminum, silver-aluminum, or silver-copper particles as the fill. SSP supplies these shielding silicones as sheets, rolls, ready-to-mold compounds, extruded profiles, and O-rings.

For frame gaskets, molding minimizes material waste, maximizes material yields, and reduces the risk that's associated with bonding cut lengths. Fabrication processes like die cutting are efficient, but the cut-out section of a frame gasket can represent significant material waste. To support our customers, SSP supplies mold-able EMI silicones and operates an in-house machine shop with CNC capabilities. By asking SSP to mold shielding elastomers into EMI frame gaskets, engineers are saving time and money.

### Conductive Elastomers and Material Costs

Conductive elastomers that use silicone as the base material can withstand a wide range of temperatures. Some are also flame retardant. Conductive elastomers that contain fluorosilicone combine the advantages of silicone rubber with fuel and solvent resistance. To provide EMI shielding and electrical conductivity, SSP packs the base elastomer (a natural insulator) with metal or metal-coated particles.

During product design and development, engineers can specify conductive elastomers that use different fills. EMI silicones that contain silver-coated particles provide excellent shielding. Yet they also cost more than nickel-graphite compounds that have silver-like shielding effectiveness. SSP has proven the shielding effectiveness of its nickel-graphite silicones through third-party testing at an approved laboratory according to the MIL-DTL-83528 standard.

No matter which type of fill an engineer specifies, conductive elastomers cost more than commodity rubber. These costs aren't just a function of the large amounts of silver-coated or nickel-coated particles that are required. Conductive elastomers cost more because of how they're made. Compression molding for standard 10' x 20' or 15' x 20' sheets is a time-consuming, labor-intensive process.

Unfortunately, even companies that understand these costs may overlook them when gasket quantities are low. As production increases, however, the high costs of EMI gaskets can't be ignored. For example, an engineer who specifies a silver-filled conductive elastomer that's .125" thick may discover that a die cut, frame-style EMI gasket is now one of the most expensive parts of a housing or module.

For engineers and technical buyers who buy gaskets made of commodity rubber, these high costs aren't just alarming. Cost overruns on EMI gaskets can also jeopardize price-sensitive projects. That's why defense contractors, automotive tier suppliers, telecommunications companies, and other manufacturers are looking for ways to cut EMI gasket costs. With molded EMI frame gaskets, SSP has the solution.

### Material Waste: Gasket Molding vs. Cutting and Bonding



Frame gaskets are usually rectangular since they protect a box-like housing or enclosure. In the image at left, the green part is the frame (the gasket) and the blue part is sheet.

As you can see, the area in the middle is empty. Die cutting a gasket like this is expensive if the material in the middle is discarded. There's also significant material waste along the top, bottom, and sides.

What does this mean in terms of material costs? Consider the following example.

Let's say that the blue sheet cost \$400. A die cutter applied a markup and added labor so that the cost of the green gasket was \$500. A customer then ordered 300 gaskets and paid \$150,000 for them.

That's a significant expense even without material waste. If 60% of the sheet material is discarded, the cost of the waste is \$90,000.

The gasket's width and length aren't the only measurements that matter here. EMI frame gaskets with a thickness of .062" or higher are leading candidates for cost savings. Volume might not be as important as you think either. SSP can mold EMI gaskets in quantities as low as 15 to 20. Because we have our own machine shop, we can control costs. With higher volumes, the per-gasket cost of tools becomes negligible.

Engineers who choose molded EMI frame gaskets like how SSP can mold an entire part instead of cutting and then bonding strips or extrusions. Using a single, molded part improves performance and reduces the risk of leaking that's associated with the corners of bonded gaskets. There are several ways to bond cut lengths of conductive elastomers, but cold bonding and RTVs have disadvantages.

Cold bonding is a low-cost method that uses a glue to join the corners of an EMI frame gasket. Glues won't withstand the same temperatures as the conductive elastomer and can break during installation, allowing environmental and EMI leakage. Room-temperature vulcanizing (RTV) silicones can withstand

higher temperatures but usually aren't conductive. RTVs support vulcanization and hot splicing instead of cold bonding, but RTVs can provide paths that result in EMI leakage.

Conductive RTVs are available but may not provide a cost-effective solution. First, a gasket fabricator molds the sheets or extrudes the materials. The fabricator then cuts the sheets or extrusions to size before priming the corners. By the time the conductive RTV is applied to each corner, the gasket may be more expensive than if it had been molded.

### **Molded EMI Gaskets from SSP**

SSP molds frame gaskets from conductive elastomers that provide environmental sealing, electrical conductivity, and EMI shielding. To minimize material waste, we mold your gaskets in a slightly large size. You can then trim the final gasket to meet your precise dimensional specifications.

Even with low-volume quantities, molding is a cost-effective fabrication method for EMI frame gaskets. Molding also minimizes the risks associated with joining cut lengths produced by cutting and bonding processes. To learn more about molded EMI frame gaskets, contact Specialty Silicone Products.

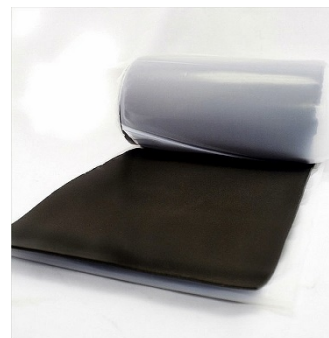
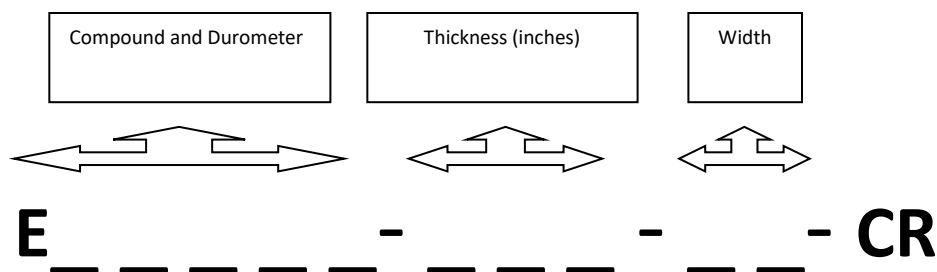


# Continuous Rolls

Specialty Silicone Products (SSP) supplies EMI RFI silicones as continuous rolls both in standard and custom sizes. Roll stock is used for automated die cutting and large, non-bonded gaskets and parts.

Part numbers for continuous rolls begin with the letter **E** and end with the letters **CR**. The intervening increments indicate the SSP compound and durometer (Shore A), thickness, and width.

This diagram explains.



The table below describes standard rolls that are 12 inches wide. SSP can also supply continuous rolls up to 15 inches wide upon request.

**Important:** If you need rolls with conductive acrylic pressure-sensitive adhesive (CAPSA), please add CAPSA to the part number when ordering.

PART NUMBER	DESCRIPTION
<b>12" WIDE CONTINUOUS ROLLS</b>	<b>NICKEL-GRAPHITE SILICONE 40 DUROMETER</b>
E50240-015-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .015" THICK
E50240-020-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .020" THICK
E50240-024-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .024" THICK
E50240-032-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .032" THICK
E50240-040-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .040" THICK
E50240-045-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .045" THICK
E50240-050-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .050" THICK
E50240-062-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .062" THICK
E50240-070-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .070" THICK

PART NUMBER	DESCRIPTION
E50240-080-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .080" THICK
E50240-093-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .093" THICK
E50240-100-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .100" THICK
E50240-125-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .125" THICK
<b>12" WIDE CONTINUOUS ROLLS</b>	<b>NICKEL-GRAPHITE SILICONE UL-94 V0 COMPLIANT (FLAME RETARDANT) 40 DUROMETER</b>
E50240V0-015-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .015" THICK
E50240V0-020-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .020" THICK
E50240V0-032-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .032" THICK
E50240V0-040-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .040" THICK
E50240V0-062-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .062" THICK
E50240V0-080-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .080" THICK
E50240V0-093-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .093" THICK
E50240V0-100-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .100" THICK
E50240V0-125-12W-CR	40 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .125" THICK
<b>12" WIDE CONTINUOUS ROLLS</b>	<b>NICKEL-GRAPHITE SILICONE 50 DUROMETER</b>
E50250-015-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .015" THICK
E50250-020-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .020" THICK
E50250-024-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .024" THICK
E50250-032-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .032" THICK
E50250-040-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .040" THICK
E50250-045-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .045" THICK
E50250-050-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .050" THICK
E50250-062-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .062" THICK
E50250-070-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .070" THICK
E50250-080-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .080" THICK



PART NUMBER	DESCRIPTION
E50250-093-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .093" THICK
E50250-100-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .100" THICK
E50250-125-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .125" THICK
<b>12" WIDE CONTINUOUS ROLLS</b>	<b>NICKEL-GRAPHITE SILICONE UL-94 V0 COMPLIANT (FLAME RETARDANT) 60 DUROMETER</b>
E50260V0-015-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .015" THICK
E50260V0-020-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .020" THICK
E50260V0-032-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .032" THICK
E50260V0-040-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .040" THICK
E50260V0-062-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .062" THICK
E50260V0-080-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .080" THICK
E50260V0-093-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .093" THICK
E50260V0-100-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .100" THICK
E50260V0-125-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLAME RETARDANT ROLLSTOCK .125" THICK
<b>12" WIDE CONTINUOUS ROLLS</b>	<b>NICKEL-GRAPHITE SILICONE 65 DUROMETER</b>
E50265-010-12W-CR	65 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .010" THICK
E50265-015-12W-CR	65 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .015" THICK
E50265-020-12W-CR	65 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .020" THICK
E50265-024-12W-CR	65 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .024" THICK
E50265-032-12W-CR	65 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .032" THICK
E50265-040-12W-CR	65 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .040" THICK
E50265-045-12W-CR	65 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .045" THICK
E50265-050-12W-CR	65 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .050" THICK
E50265-062-12W-CR	65 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .062" THICK
E50265-070-12W-CR	65 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .070" THICK
E50265-080-12W-CR	65 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .080" THICK

PART NUMBER	DESCRIPTION
E50265-093-12W-CR	65 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .093" THICK
E50265-100-12W-CR	65 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .100" THICK
E50265-125-12W-CR	65 SHORE A NICKEL GRAPHITE FILLED ROLLSTOCK .125" THICK
<b>12" WIDE CONTINUOUS ROLLS</b>	<b>NICKEL-GRAPHITE FLUOROSILICONE 50 SHORE A</b>
E502F50-015-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .015" THICK
E502F50-020-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .020" THICK
E502F50-032-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .032" THICK
E502F50-040-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .040" THICK
E502F50-062-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .062" THICK
E502F50-080-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .080" THICK
E502F50-093-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .093" THICK
E502F50-100-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .100" THICK
E502F50-125-12W-CR	50 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .125" THICK
<b>12" WIDE CONTINUOUS ROLLS</b>	<b>NICKEL-GRAPHITE FLUOROSILICONE 60 SHORE A</b>
E502F60-015-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .015" THICK
E502F60-020-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .020" THICK
E50260F-032-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .032" THICK
E50260F-040-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .040" THICK
E50260F-062-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .062" THICK
E50260F-080-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .080" THICK
E50260F-093-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .093" THICK
E50260F-100-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .100" THICK
E50260F-125-12W-CR	60 SHORE A NICKEL GRAPHITE FILLED FLUOROSILICONE ROLLSTOCK .125" THICK
<b>12" WIDE CONTINUOUS ROLLS</b>	<b>SILVER-ALUMINUM FLUOROSILICONE 70 DUROMETER COMMERCIAL-GRADE, NON-QPL</b>

PART NUMBER	DESCRIPTION
	<b>*AVAILABLE IN 4 to 15 INCH WIDTHS IN MOST THICKNESSES*</b>
E55070-015-12W-CR	70 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE ROLLSTOCK .015" THICK
E55070-020-12W-CR	70 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE ROLLSTOCK .020" THICK
E55070-032-12W-CR	70 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE ROLLSTOCK .032" THICK
E55070-040-12W-CR	70 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE ROLLSTOCK .040" THICK
E55070-062-12W-CR	70 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE ROLLSTOCK .062" THICK
E55070-080-12W-CR	70 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE ROLLSTOCK .080" THICK
E55070-093-12W-CR	70 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE ROLLSTOCK .093" THICK



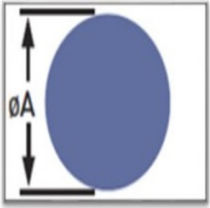
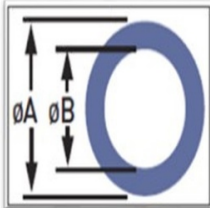
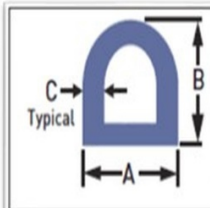
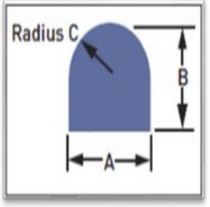
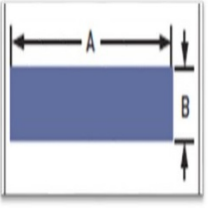
# Standard Extrusions

Specialty Silicone Products (SSP) supplies standard EMI RFI extrusions made of the following materials.

## Extrusion Materials

PRODUCT	BASE	FILL	DUROMETER	COLOR	QPL	THIRD-PARTY SHIELDING REPORT
E236865	Silicone	Silver-Aluminum	65	Tan	Yes	Yes
E236865DB	Silicone	Silver-Aluminum	65	Dark Blue	Yes	Yes
E248670	Fluorosilicone	Silver-Aluminum	70	Tan	Yes	Yes
E248670DB	Fluorosilicone	Silver-Aluminum	70	Dark Blue	Yes	Yes
E2529	Silicone	Nickel-Aluminum	68			Yes
E2551	Fluorosilicone	Nickel-Aluminum	72			Yes
E50265	Silicone	Nickel-Graphite	65			Yes
E502F60	Fluorosilicone	Nickel-Graphite	60			Yes

## Extrusion Shapes and Part Number Codes

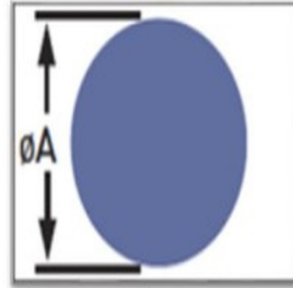
SHAPE		PART NUMBER CODE
Solid Cord		EXXXX-AAA-EX-C <ul style="list-style-type: none"> <li>• EXXXX is the extruded material</li> <li>• AAA is Dimension A</li> </ul> EX-C indicates it's a solid cord
Hollow Tube		EXXXX-AAA-BBB-EXHT <ul style="list-style-type: none"> <li>• EXXXX is the extruded material</li> <li>• AAA is Dimension A</li> <li>• BBB is Dimension B</li> </ul> EXHT indicates it's an extruded hollow tube
Hollow D		EXXXX-AAA-BBB-CCC-EXHD <ul style="list-style-type: none"> <li>• EXXXX is the extruded material</li> <li>• AAA is Dimension A</li> <li>• BBB is Dimension B</li> <li>• CCC is Dimension C</li> <li>• EXHD indicates it's an extruded hollow D</li> </ul>
Solid D		EXXXX-AAA-BBB-EXSD <ul style="list-style-type: none"> <li>• EXXXX is the extruded material</li> <li>• AAA is Dimension A</li> <li>• BBB is Dimension B</li> <li>• EXSD indicates it's an extruded solid D</li> </ul>
Solid Rectangle		EXXXX-AAA-BBB- EXSR <ul style="list-style-type: none"> <li>• EXXXX is the extruded material</li> <li>• AAA is Dimension A</li> <li>• BBB is Dimension B</li> <li>• CEXHD indicates it's an extruded solid rectangle</li> </ul>

## Solid Cord

Part number code:

### EXXX-AAA-EX-C

- EXXX is the extruded material
- AAA is Dimension A
- EX-C indicates it's an extruded cord



For each of the materials in which SSP makes them, the table below lists standard Solid Cords.

E236865 is a 65-durometer silicone filled with silver-aluminum particles. It's tan in color and QPL listed.							
MIL-DTL-83528 Part Number	SSP Part Number	Dimension ±.005		Recommended Groove Width		Recommended Groove Height	
M83528/ 001X001	E2368-040-EX-C	.040	1.02	.050	1.27	.030	.76
M83528/ 001X002	E2368-053-EX-C	.053	1.35	.062	1.57	.040	1.02
M83528/ 001X003	E2368-062-EX-C	.062	1.57	.070	1.78	.047	1.19
M83528/ 001X004	E2368-070-EX-C	.070	1.78	.083	2.11	.050	1.27
M83528/ 001X005	E2368-080-EX-C	.080	2.03	.090	2.29	.060	1.52
M83528/ 001X006	E2368-093-EX-C	.093	2.36	.103	2.62	.070	1.78
M83528/ 001X007	E2368-103-EX-C	.103	2.62	.118	3.00	.074	1.88
M83528/ 001X008	E2368-119-EX-C	.119	3.02	.130	3.30	.090	2.29
M83528/ 001X009	E2368-125-EX-C	.125	3.18	.139	3.53	.093	2.36
M83528/ 001X010	E2368-139-EX-C	.139	3.53	.157	3.99	.101	2.56
M83528/ 001X011	E2368-188-EX-C	.188	4.78	.210	5.33	.141	3.58
M83528/ 001X012	E2368-216-EX-C	.216	5.49	.241	6.12	.160	4.06
M83528/ 001X013	E2368-250-EX-C	.250	6.35	.275	6.98	.187	4.75

N/A	E2368-157-EX-C	.157	3.99	.178	4.52	.122	3.10
N/A	E2368-090-EX-C	.090	2.29	.100	2.54	.070	1.78
N/A	E2368-200-EX-C	.200	5.08	.224	5.69	.155	3.94
N/A	E2368-258-EX-C	.258	6.55	.283	7.19	.200	5.08
N/A	E2368-059-EX-C	.059	1.50	.067	1.70	.045	1.14
E236865DB is a 65-durometer silicone filled with silver-aluminum particles. It's dark blue in color and QPL listed.							
MIL-DTL-83528 Part Number	SSP Part Number	Dimension ±.005		Recommended Groove Width		Recommended Groove Height	
M83528/ 001X001	E2368DB-040-EX-C	.040	1.02	.050	1.27	.030	.76
M83528/ 001X002	E2368DB-053-EX-C	.053	1.35	.062	1.57	.040	1.02
M83528/ 001X003	E2368DB-062-EX-C	.062	1.57	.070	1.78	.047	1.19
M83528/ 001X004	E2368DB-070-EX-C	.070	1.78	.083	2.11	.050	1.27
M83528/ 001X005	E2368DB-080-EX-C	.080	2.03	.090	2.29	.060	1.52
M83528/ 001X006	E2368DB-093-EX-C	.093	2.36	.103	2.62	.070	1.78
M83528/ 001X007	E2368DB-103-EX-C	.103	2.62	.118	3.00	.074	1.88
M83528/ 001X008	E2368DB-119-EX-C	.119	3.02	.130	3.30	.090	2.29
M83528/ 001X009	E2368DB-125-EX-C	.125	3.18	.139	3.53	.093	2.36
M83528/ 001X010	E2368DB-139-EX-C	.139	3.53	.157	3.99	.101	2.56
M83528/ 001X011	E2368DB-188-EX-C	.188	4.78	.210	5.33	.141	3.58
M83528/ 001X012	E2368DB-216-EX-C	.216	5.49	.241	6.12	.160	4.06
M83528/ 001X013	E2368DB-250-EX-C	.250	6.35	.275	6.98	.187	4.75
N/A	E2368DB-157-EX-C	.157	3.99	.178	4.52	.122	3.10
N/A	E2368DB-090-EX-C	.090	2.29	.100	2.54	.070	1.78



N/A	E2368DB-200-EX-C	.200	5.08	.224	5.69	.155	3.94
N/A	E2368DB-258-EX-C	.258	6.55	.283	7.19	.200	5.08
N/A	E2368DB-059-EX-C	.059	1.50	.067	1.70	.045	1.14
<b>E248670</b> is a 70-durometer fluorosilicone filled with silver-aluminum particles. It's tan in color and QPL listed.							
<b>MIL-DTL-83528 Part Number</b>	<b>SSP Part Number</b>	<b>Dimension ±.005</b>		<b>Recommended Groove Width</b>		<b>Recommended Groove Height</b>	
M83528/ 001X001	E2486-040-EX-C	.040	1.02	.050	1.27	.030	.76
M83528/ 001X002	E2486-053-EX-C	.053	1.35	.062	1.57	.040	1.02
M83528/ 001X003	E2486-062-EX-C	.062	1.57	.070	1.78	.047	1.19
M83528/ 001X004	E2486-070-EX-C	.070	1.78	.083	2.11	.050	1.27
M83528/ 001X005	E2486-080-EX-C	.080	2.03	.090	2.29	.060	1.52
M83528/ 001X006	E2486-093-EX-C	.093	2.36	.103	2.62	.070	1.78
M83528/ 001X007	E2486-103-EX-C	.103	2.62	.118	3.00	.074	1.88
M83528/ 001X008	E2486-119-EX-C	.119	3.02	.130	3.30	.090	2.29
M83528/ 001X009	E2486-125-EX-C	.125	3.18	.139	3.53	.093	2.36
M83528/ 001X010	E2486-139-EX-C	.139	3.53	.157	3.99	.101	2.56
M83528/ 001X011	E2486-188-EX-C	.188	4.78	.210	5.33	.141	3.58
M83528/ 001X012	E2486-216-EX-C	.216	5.49	.241	6.12	.160	4.06
M83528/ 001X013	E2486-250-EX-C	.250	6.35	.275	6.98	.187	4.75
N/A	E2486-157-EX-C	.157	3.99	.178	4.52	.122	3.10
N/A	E2486-090-EX-C	.090	2.29	.100	2.54	.070	1.78
N/A	E2486-200-EX-C	.200	5.08	.224	5.69	.155	3.94
N/A	E2486-258-EX-C	.258	6.55	.283	7.19	.200	5.08

N/A	E2486-059-EX-C	.059	1.50	.067	1.70	.045	1.14
<b>E248670DB</b> is a 70-durometer fluorosilicone filled with silver-aluminum particles. It's dark blue in color and QPL listed.							
MIL-DTL-83528 Part Number	SSP Part Number	Dimension ±.005		Recommended Groove Width		Recommended Groove Height	
M83528/ 001X001	E2486DB-040-EX-C	.040	1.02	.050	1.27	.030	.76
M83528/ 001X002	E2486DB-053-EX-C	.053	1.35	.062	1.57	.040	1.02
M83528/ 001X003	E2486DB-062-EX-C	.062	1.57	.070	1.78	.047	1.19
M83528/ 001X004	E2486DB-070-EX-C	.070	1.78	.083	2.11	.050	1.27
M83528/ 001X005	E2486DB-080-EX-C	.080	2.03	.090	2.29	.060	1.52
M83528/ 001X006	E2486DB-093-EX-C	.093	2.36	.103	2.62	.070	1.78
M83528/ 001X007	E2486DB-103-EX-C	.103	2.62	.118	3.00	.074	1.88
M83528/ 001X008	E2486DB-119-EX-C	.119	3.02	.130	3.30	.090	2.29
M83528/ 001X009	E2486DB-125-EX-C	.125	3.18	.139	3.53	.093	2.36
M83528/ 001X010	E2486DB-139-EX-C	.139	3.53	.157	3.99	.101	2.56
M83528/ 001X011	E2486DB-188-EX-C	.188	4.78	.210	5.33	.141	3.58
M83528/ 001X012	E2486DB-216-EX-C	.216	5.49	.241	6.12	.160	4.06
M83528/ 001X013	E2486DB-250-EX-C	.250	6.35	.275	6.98	.187	4.75
N/A	E2486DB-157-EX-C	.157	3.99	.178	4.52	.122	3.10
N/A	E2486DB-090-EX-C	.090	2.29	.100	2.54	.070	1.78
N/A	E2486DB-200-EX-C	.200	5.08	.224	5.69	.155	3.94
N/A	E2486DB-258-EX-C	.258	6.55	.283	7.19	.200	5.08
N/A	E2486DB-059-EX-C	.059	1.50	.067	1.70	.045	1.14
<b>E2529</b> is a 68-durometer silicone filled with nickel-aluminum particles.							

MIL-DTL-83528 Part Number	SSP Part Number	Dimension ±.005		Recommended Groove Width		Recommended Groove Height	
M83528/ 001X001	E2529-040-EX-C	.040	1.02	.050	1.27	.030	.76
M83528/ 001X002	E2529-053-EX-C	.053	1.35	.062	1.57	.040	1.02
M83528/ 001X003	E2529-062-EX-C	.062	1.57	.070	1.78	.047	1.19
M83528/ 001X004	E2529-070-EX-C	.070	1.78	.083	2.11	.050	1.27
M83528/ 001X005	E2529-080-EX-C	.080	2.03	.090	2.29	.060	1.52
M83528/ 001X006	E2529-093-EX-C	.093	2.36	.103	2.62	.070	1.78
M83528/ 001X007	E2529-103-EX-C	.103	2.62	.118	3.00	.074	1.88
M83528/ 001X008	E2529-119-EX-C	.119	3.02	.130	3.30	.090	2.29
M83528/ 001X009	E2529-125-EX-C	.125	3.18	.139	3.53	.093	2.36
M83528/ 001X010	E2529-139-EX-C	.139	3.53	.157	3.99	.101	2.56
M83528/ 001X011	E2529-188-EX-C	.188	4.78	.210	5.33	.141	3.58
M83528/ 001X012	E2529-216-EX-C	.216	5.49	.241	6.12	.160	4.06
M83528/ 001X013	E2529-250-EX-C	.250	6.35	.275	6.98	.187	4.75
N/A	E2529-157-EX-C	.157	3.99	.178	4.52	.122	3.10
N/A	E2529-090-EX-C	.090	2.29	.100	2.54	.070	1.78
N/A	E2529-200-EX-C	.200	5.08	.224	5.69	.155	3.94
N/A	E2529-258-EX-C	.258	6.55	.283	7.19	.200	5.08
N/A	E2529-059-EX-C	.059	1.50	.067	1.70	.045	1.14
<b>E2551</b> is a 72-durometer silicone filled with nickel-aluminum particles.							
MIL-DTL-83528 Part Number	SSP Part Number	Dimension ±.005		Recommended Groove Width		Recommended Groove Height	

M83528/ 001X001	E2551-040-EX-C	.040	1.02	.050	1.27	.030	.76
M83528/ 001X002	E2551-053-EX-C	.053	1.35	.062	1.57	.040	1.02
M83528/ 001X003	E2551-062-EX-C	.062	1.57	.070	1.78	.047	1.19
M83528/ 001X004	E2551-070-EX-C	.070	1.78	.083	2.11	.050	1.27
M83528/ 001X005	E2551-080-EX-C	.080	2.03	.090	2.29	.060	1.52
M83528/ 001X006	E2551-093-EX-C	.093	2.36	.103	2.62	.070	1.78
M83528/ 001X007	E2551-103-EX-C	.103	2.62	.118	3.00	.074	1.88
M83528/ 001X008	E2551-119-EX-C	.119	3.02	.130	3.30	.090	2.29
M83528/ 001X009	E2551-125-EX-C	.125	3.18	.139	3.53	.093	2.36
M83528/ 001X010	E2551-139-EX-C	.139	3.53	.157	3.99	.101	2.56
M83528/ 001X011	E2551-188-EX-C	.188	4.78	.210	5.33	.141	3.58
M83528/ 001X012	E2551-216-EX-C	.216	5.49	.241	6.12	.160	4.06
M83528/ 001X013	E2551-250-EX-C	.250	6.35	.275	6.98	.187	4.75
N/A	E2551-157-EX-C	.157	3.99	.178	4.52	.122	3.10
N/A	E2551-090-EX-C	.090	2.29	.100	2.54	.070	1.78
N/A	E2551-200-EX-C	.200	5.08	.224	5.69	.155	3.94
N/A	E2551-258-EX-C	.258	6.55	.283	7.19	.200	5.08
N/A	E2551-059-EX-C	.059	1.50	.067	1.70	.045	1.14
<b>E50265</b> is a 65-durometer silicone filled with nickel-graphite particles.							
<b>MIL-DTL-83528 Part Number</b>	<b>SSP Part Number</b>	<b>Dimension ±.005</b>		<b>Recommended Groove Width</b>		<b>Recommended Groove Height</b>	
M83528/ 001X001	E50265-040-EX-C	.040	1.02	.050	1.27	.030	.76

M83528/ 001X002	E50265-053-EX-C	.053	1.35	.062	1.57	.040	1.02
M83528/ 001X003	E50265-062-EX-C	.062	1.57	.070	1.78	.047	1.19
M83528/ 001X004	E50265-070-EX-C	.070	1.78	.083	2.11	.050	1.27
M83528/ 001X005	E50265-080-EX-C	.080	2.03	.090	2.29	.060	1.52
M83528/ 001X006	E50265-093-EX-C	.093	2.36	.103	2.62	.070	1.78
M83528/ 001X007	E50265-103-EX-C	.103	2.62	.118	3.00	.074	1.88
M83528/ 001X008	E50265-119-EX-C	.119	3.02	.130	3.30	.090	2.29
M83528/ 001X009	E50265-125-EX-C	.125	3.18	.139	3.53	.093	2.36
M83528/ 001X010	E50265-139-EX-C	.139	3.53	.157	3.99	.101	2.56
M83528/ 001X011	E50265-188-EX-C	.188	4.78	.210	5.33	.141	3.58
M83528/ 001X012	E50265-216-EX-C	.216	5.49	.241	6.12	.160	4.06
M83528/ 001X013	E50265-250-EX-C	.250	6.35	.275	6.98	.187	4.75
N/A	E50265-157-EX-C	.157	3.99	.178	4.52	.122	3.10
N/A	E50265-090-EX-C	.090	2.29	.100	2.54	.070	1.78
N/A	E50265-200-EX-C	.200	5.08	.224	5.69	.155	3.94
N/A	E50265-258-EX-C	.258	6.55	.283	7.19	.200	5.08
N/A	E50265-059-EX-C	.059	1.50	.067	1.70	.045	1.14
<b>E502F60</b> is a 60-durometer fluorosilicone filled with nickel-graphite particles.							
<b>MIL-DTL-83528 Part Number</b>	<b>SSP Part Number</b>	<b>Dimension ±.005</b>		<b>Recommended Groove Width</b>		<b>Recommended Groove Height</b>	
M83528/ 001X001	E502F60-040-EX-C	.040	1.02	.050	1.27	.030	.76
M83528/ 001X002	E502F60-053-EX-C	.053	1.35	.062	1.57	.040	1.02

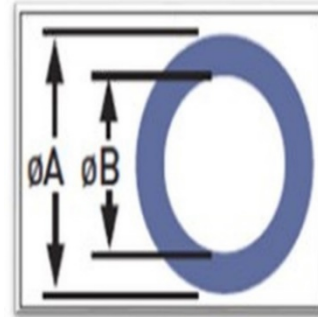
M83528/ 001X003	E502F60-062-EX-C	.062	1.57	.070	1.78	.047	1.19
M83528/ 001X004	E502F60-070-EX-C	.070	1.78	.083	2.11	.050	1.27
M83528/ 001X005	E502F60-080-EX-C	.080	2.03	.090	2.29	.060	1.52
M83528/ 001X006	E502F60-093-EX-C	.093	2.36	.103	2.62	.070	1.78
M83528/ 001X007	E502F60-103-EX-C	.103	2.62	.118	3.00	.074	1.88
M83528/ 001X008	E502F60-119-EX-C	.119	3.02	.130	3.30	.090	2.29
M83528/ 001X009	E502F60-125-EX-C	.125	3.18	.139	3.53	.093	2.36
M83528/ 001X010	E502F60-139-EX-C	.139	3.53	.157	3.99	.101	2.56
M83528/ 001X011	E502F60-188-EX-C	.188	4.78	.210	5.33	.141	3.58
M83528/ 001X012	E502F60-216-EX-C	.216	5.49	.241	6.12	.160	4.06
M83528/ 001X013	E502F60-250-EX-C	.250	6.35	.275	6.98	.187	4.75
N/A	E502F60-157-EX-C	.157	3.99	.178	4.52	.122	3.10
N/A	E502F60-090-EX-C	.090	2.29	.100	2.54	.070	1.78
N/A	E502F60-200-EX-C	.200	5.08	.224	5.69	.155	3.94
N/A	E502F60-258-EX-C	.258	6.55	.283	7.19	.200	5.08
N/A	E502F60-059-EX-C	.059	1.50	.067	1.70	.045	1.14

## Hollow Tubes

Part number code:

### EXXX-AAA-BBB-EXHT

- EXXXX is the extruded material
- AAA is Dimension A
- BBB is Dimension B
- EXHT indicates it's an extruded hollow tube



For each the materials in which SSP makes them, the table below lists standard Hollow Tubes.

E236865 is a 65-durometer silicone filled with silver-aluminum particles. It's tan in color and QPL listed.									
MIL-DTL-83528 Part Number	SSP Part Number	Dimensions A (OD)		Dimensions B (ID)		Recommended Groove Width		Recommended Groove Height	
M83528/011X001	E2368-125-045-EXHT	.125	3.18	.045	1.14	.130	3.30	.088	2.23
M83528/011X002	E2368-156-050-EXHT	.156	3.96	.050	1.27	.160	4.06	.109	2.76
M83528/011X003	E2368-250-125-EXHT	.250	6.35	.125	3.18	.255	5.71	.150	3.81
M83528/011X004	E2368-312-192-EXHT	.312	7.92	.192	4.88	.317	8.05	.156	3.96
M83528/011X005	E2368-375-250-EXHT	.375	9.53	.250	6.35	.380	9.65	.177	4.49
M83528/011X006	E2368-125-062-EXHT	.125	3.18	.062	1.57	.130	3.30	.077	1.95
M83528/011X007	E2368-103-040-EXHT	.103	2.62	.040	1.02	.107	2.72	.073	1.85
M83528/011X008	E2368-177-079-EXHT	.177	4.50	.079	2.01	.182	4.62	.120	3.05
N/A	E2368-090-050-EXHT	.090	2.29	.050	1.27	.095	2.41	.063	1.60

N/A	E2368-094-063-EXHT	.094	2.39	.063	1.60	.099	2.51	.066	1.68
N/A	E2368-060-020-EXHT	.060	1.52	.020	.51	.065	1.65	.042	1.07
N/A	E2368-125-079-EXHT	.125	3.18	.079	2.01	.130	3.30	.088	2.24
N/A	E2368-156-080-EXHT	.156	3.96	.080	2.03	.161	4.09	.109	2.77
N/A	E2368-400-240-EXHT	.400	10.16	.240	6.10	.405	10.29	.189	4.80

**E236865DB** is a 65-durometer silicone filled with silver-aluminum particles. It's dark blue in color and QPL listed.

MIL-DTL-83528 Part Number	SSP Part Number	Dimensions A (OD)		Dimensions B (ID)		Recommended Groove Width		Recommended Groove Height	
M83528/011X001	E2368DB-125-045-EXHT	.125	3.18	.045	1.14	.130	3.30	.088	2.23
M83528/011X002	E2368DB-156-050-EXHT	.156	3.96	.050	1.27	.160	4.06	.109	2.76
M83528/011X003	E2368DB-250-125-EXHT	.250	6.35	.125	3.18	.255	5.71	.150	3.81
M83528/011X004	E2368DB-312-192-EXHT	.312	7.92	.192	4.88	.317	8.05	.156	3.96
M83528/011X005	E2368DB-375-250-EXHT	.375	9.53	.250	6.35	.380	9.65	.177	4.49
M83528/011X006	E2368DB-125-062-EXHT	.125	3.18	.062	1.57	.130	3.30	.077	1.95
M83528/011X007	E2368DB-103-040-EXHT	.103	2.62	.040	1.02	.107	2.72	.073	1.85
M83528/011X008	E2368DB-177-079-EXHT	.177	4.50	.079	2.01	.182	4.62	.120	3.05
N/A	E2368DB-090-050-EXHT	.090	2.29	.050	1.27	.095	2.41	.063	1.60



N/A	E2368DB-094-063-EXHT	.094	2.39	.063	1.60	.099	2.51	.066	1.68
N/A	E2368DB-060-020-EXHT	.060	1.52	.020	.51	.065	1.65	.042	1.07
N/A	E2368DB-125-079-EXHT	.125	3.18	.079	2.01	.130	3.30	.088	2.24
N/A	E2368DB-156-080-EXHT	.156	3.96	.080	2.03	.161	4.09	.109	2.77
N/A	E2368DB-400-240-EXHT	.400	10.16	.240	6.10	.405	10.29	.189	4.80

**E248670** is a 70-durometer fluorosilicone filled with silver-aluminum particles. It's tan in color and QPL listed.

MIL-DTL-83528 Part Number	SSP Part Number	Dimensions A (OD)		Dimensions B (ID)		Recommended Groove Width		Recommended Groove Height	
M83528/011X001	E2486-125-045-EXHT	.125	3.18	.045	1.14	.130	3.30	.088	2.23
M83528/011X002	E2486-156-050-EXHT	.156	3.96	.050	1.27	.160	4.06	.109	2.76
M83528/011X003	E2486-250-125-EXHT	.250	6.35	.125	3.18	.255	5.71	.150	3.81
M83528/011X004	E2486-312-192-EXHT	.312	7.92	.192	4.88	.317	8.05	.156	3.96
M83528/011X005	E2486-375-250-EXHT	.375	9.53	.250	6.35	.380	9.65	.177	4.49
M83528/011X006	E2486-125-062-EXHT	.125	3.18	.062	1.57	.130	3.30	.077	1.95
M83528/011X007	E2486-103-040-EXHT	.103	2.62	.040	1.02	.107	2.72	.073	1.85
M83528/011X008	E2486-177-079-EXHT	.177	4.50	.079	2.01	.182	4.62	.120	3.05
N/A	E2486-090-050-EXHT	.090	2.29	.050	1.27	.095	2.41	.063	1.60

N/A	E2486-094-063-EXHT	.094	2.39	.063	1.60	.099	2.51	.066	1.68
N/A	E2486-060-020-EXHT	.060	1.52	.020	.51	.065	1.65	.042	1.07
N/A	E2486-125-079-EXHT	.125	3.18	.079	2.01	.130	3.30	.088	2.24
N/A	E2486-156-080-EXHT	.156	3.96	.080	2.03	.161	4.09	.109	2.77
N/A	E2486-400-240-EXHT	.400	10.16	.240	6.10	.405	10.29	.189	4.80
E248670DB is a 70-durometer fluorosilicone filled with silver-aluminum particles. It's dark blue in color and QPL listed.									
MIL-DTL-83528 Part Number	SSP Part Number	Dimensions A (OD)		Dimensions B (ID)		Recommended Groove Width		Recommended Groove Height	
M83528/011X001	E2486DB-125-045-EXHT	.125	3.18	.045	1.14	.130	3.30	.088	2.23
M83528/011X002	E2486DB-156-050-EXHT	.156	3.96	.050	1.27	.160	4.06	.109	2.76
M83528/011X003	E2486DB-250-125-EXHT	.250	6.35	.125	3.18	.255	5.71	.150	3.81
M83528/011X004	E2486DB-312-192-EXHT	.312	7.92	.192	4.88	.317	8.05	.156	3.96
M83528/011X005	E2486DB-375-250-EXHT	.375	9.53	.250	6.35	.380	9.65	.177	4.49
M83528/011X006	E2486DB-125-062-EXHT	.125	3.18	.062	1.57	.130	3.30	.077	1.95
M83528/011X007	E2486DB-103-040-EXHT	.103	2.62	.040	1.02	.107	2.72	.073	1.85
M83528/011X008	E2486DB-177-079-EXHT	.177	4.50	.079	2.01	.182	4.62	.120	3.05
N/A	E2486DB-090-050-EXHT	.090	2.29	.050	1.27	.095	2.41	.063	1.60

N/A	E2486DB-094-063-EXHT	.094	2.39	.063	1.60	.099	2.51	.066	1.68
N/A	E2486DB-060-020-EXHT	.060	1.52	.020	.51	.065	1.65	.042	1.07
N/A	E2486DB-125-079-EXHT	.125	3.18	.079	2.01	.130	3.30	.088	2.24
N/A	E2486DB-156-080-EXHT	.156	3.96	.080	2.03	.161	4.09	.109	2.77
N/A	E2486DB-400-240-EXHT	.400	10.16	.240	6.10	.405	10.29	.189	4.80

E2529 is a 68-durometer silicone filled with nickel-aluminum particles.

MIL-DTL-83528 Part Number	SSP Part Number	Dimensions A (OD)		Dimensions B (ID)		Recommended Groove Width		Recommended Groove Height	
M83528/011X001	E2529-125-045-EXHT	.125	3.18	.045	1.14	.130	3.30	.088	2.23
M83528/011X002	E2529-156-050-EXHT	.156	3.96	.050	1.27	.160	4.06	.109	2.76
M83528/011X003	E2529-250-125-EXHT	.250	6.35	.125	3.18	.255	5.71	.150	3.81
M83528/011X004	E2529-312-192-EXHT	.312	7.92	.192	4.88	.317	8.05	.156	3.96
M83528/011X005	E2529-375-250-EXHT	.375	9.53	.250	6.35	.380	9.65	.177	4.49
M83528/011X006	E2529-125-062-EXHT	.125	3.18	.062	1.57	.130	3.30	.077	1.95
M83528/011X007	E2529-103-040-EXHT	.103	2.62	.040	1.02	.107	2.72	.073	1.85
M83528/011X008	E2529-177-079-EXHT	.177	4.50	.079	2.01	.182	4.62	.120	3.05
N/A	E2529-090-050-EXHT	.090	2.29	.050	1.27	.095	2.41	.063	1.60

N/A	E2529-094-063-EXHT	.094	2.39	.063	1.60	.099	2.51	.066	1.68
N/A	E2529-060-020-EXHT	.060	1.52	.020	.51	.065	1.65	.042	1.07
N/A	E2529-125-079-EXHT	.125	3.18	.079	2.01	.130	3.30	.088	2.24
N/A	E2529-156-080-EXHT	.156	3.96	.080	2.03	.161	4.09	.109	2.77
N/A	E2529-400-240-EXHT	.400	10.16	.240	6.10	.405	10.29	.189	4.80

E2551 is a 72-durometer silicone filled with nickel-aluminum particles.

MIL-DTL-83528 Part Number	SSP Part Number	Dimensions A (OD)		Dimensions B (ID)		Recommended Groove Width		Recommended Groove Height	
M83528/011X001	E2551-125-045-EXHT	.125	3.18	.045	1.14	.130	3.30	.088	2.23
M83528/011X002	E2551-156-050-EXHT	.156	3.96	.050	1.27	.160	4.06	.109	2.76
M83528/011X003	E2551-250-125-EXHT	.250	6.35	.125	3.18	.255	5.71	.150	3.81
M83528/011X004	E2551-312-192-EXHT	.312	7.92	.192	4.88	.317	8.05	.156	3.96
M83528/011X005	E2551-375-250-EXHT	.375	9.53	.250	6.35	.380	9.65	.177	4.49
M83528/011X006	E2551-125-062-EXHT	.125	3.18	.062	1.57	.130	3.30	.077	1.95
M83528/011X007	E2551-103-040-EXHT	.103	2.62	.040	1.02	.107	2.72	.073	1.85
M83528/011X008	E2551-177-079-EXHT	.177	4.50	.079	2.01	.182	4.62	.120	3.05
N/A	E2551-090-050-EXHT	.090	2.29	.050	1.27	.095	2.41	.063	1.60

N/A	E2551-094-063-EXHT	.094	2.39	.063	1.60	.099	2.51	.066	1.68
N/A	E2551-060-020-EXHT	.060	1.52	.020	.51	.065	1.65	.042	1.07
N/A	E2551-125-079-EXHT	.125	3.18	.079	2.01	.130	3.30	.088	2.24
N/A	E2551-156-080-EXHT	.156	3.96	.080	2.03	.161	4.09	.109	2.77
N/A	E2551-400-240-EXHT	.400	10.16	.240	6.10	.405	10.29	.189	4.80

E50265 is a 65-durometer silicone filled with nickel-graphite particles.

MIL-DTL-83528 Part Number	SSP Part Number	Dimensions A (OD)		Dimensions B (ID)		Recommended Groove Width		Recommended Groove Height	
M83528/011X001	E50265-125-045-EXHT	.125	3.18	.045	1.14	.130	3.30	.088	2.23
M83528/011X002	E50265-156-050-EXHT	.156	3.96	.050	1.27	.160	4.06	.109	2.76
M83528/011X003	E50265-250-125-EXHT	.250	6.35	.125	3.18	.255	5.71	.150	3.81
M83528/011X004	E50265-312-192-EXHT	.312	7.92	.192	4.88	.317	8.05	.156	3.96
M83528/011X005	E50265-375-250-EXHT	.375	9.53	.250	6.35	.380	9.65	.177	4.49
M83528/011X006	E50265-125-062-EXHT	.125	3.18	.062	1.57	.130	3.30	.077	1.95
M83528/011X007	E50265-103-040-EXHT	.103	2.62	.040	1.02	.107	2.72	.073	1.85
M83528/011X008	E50265-177-079-EXHT	.177	4.50	.079	2.01	.182	4.62	.120	3.05
N/A	E50265-090-050-EXHT	.090	2.29	.050	1.27	.095	2.41	.063	1.60

N/A	E50265-094-063-EXHT	.094	2.39	.063	1.60	.099	2.51	.066	1.68
N/A	E50265-060-020-EXHT	.060	1.52	.020	.51	.065	1.65	.042	1.07
N/A	E50265-125-079-EXHT	.125	3.18	.079	2.01	.130	3.30	.088	2.24
N/A	E50265-156-080-EXHT	.156	3.96	.080	2.03	.161	4.09	.109	2.77
N/A	E50265-400-240-EXHT	.400	10.16	.240	6.10	.405	10.29	.189	4.80
<b>E502F60</b> is a 60-durometer fluorosilicone filled with nickel-graphite particles.									
MIL-DTL-83528 Part Number	SSP Part Number	Dimensions A (OD)		Dimensions B (ID)		Recommended Groove Width		Recommended Groove Height	
M83528/011X001	E502F60-125-045-EXHT	.125	3.18	.045	1.14	.130	3.30	.088	2.23
M83528/011X002	E502F60-156-050-EXHT	.156	3.96	.050	1.27	.160	4.06	.109	2.76
M83528/011X003	E502F60-250-125-EXHT	.250	6.35	.125	3.18	.255	5.71	.150	3.81
M83528/011X004	E502F60-312-192-EXHT	.312	7.92	.192	4.88	.317	8.05	.156	3.96
M83528/011X005	E502F60-375-250-EXHT	.375	9.53	.250	6.35	.380	9.65	.177	4.49
M83528/011X006	E502F60-125-062-EXHT	.125	3.18	.062	1.57	.130	3.30	.077	1.95
M83528/011X007	E502F60-103-040-EXHT	.103	2.62	.040	1.02	.107	2.72	.073	1.85
M83528/011X008	E502F60-177-079-EXHT	.177	4.50	.079	2.01	.182	4.62	.120	3.05
N/A	E502F60-090-050-EXHT	.090	2.29	.050	1.27	.095	2.41	.063	1.60

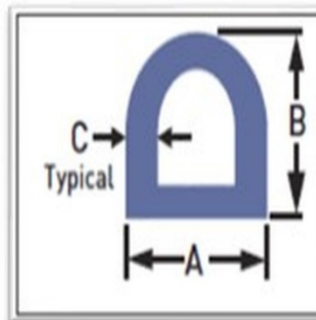
N/A	E502F60-094-063-EXHT	.094	2.39	.063	1.60	.099	2.51	.066	1.68
N/A	E502F60-060-020-EXHT	.060	1.52	.020	.51	.065	1.65	.042	1.07
N/A	E502F60-125-079-EXHT	.125	3.18	.079	2.01	.130	3.30	.088	2.24
N/A	E502F60-156-080-EXHT	.156	3.96	.080	2.03	.161	4.09	.109	2.77
N/A	E502F60-400-240-EXHT	.400	10.16	.240	6.10	.405	10.29	.189	4.80

## Hollow D

Part number code:

### EXXX-AAA-BBB-CCC-EXHD

- EXXX is the extruded material
- AAA is Dimension A
- BBB is Dimension B
- CCC is Dimension C
- EXHD indicates it's an extruded hollow D



For each of the materials in which SSP makes them, the table below lists standard Hollow Ds.

E236865 is a 65-durometer silicone filled with silver-aluminum particles. It's tan in color and QPL listed.														
MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions								Config	Rec. Groove Width		Rec. Groove Height	
		A		B		C		D						
M8358/ 007X001	E2368-156- 078-045- EXHD	.156	3.96	.078	1.98	.078	1.14	.045	1.14	A	.160	4.06	.093	2.36
M8358/ 007X002	E2368-187- 093-093- EXHD	.187	4.75	.093	2.36	.093	1.98	.050	1.27	A	.193	4.90	.107	2.71
M8358/ 007X003	E2368-312- 156-156- EXHD	.312	7.92	.156	3.96	.156	2.36	.062	1.57	A	.320	8.12	.187	4.75
M8358/ 007X004	E2368-312- 156-156- EXHD	.312	7.92	.156	3.96	.156	3.96	.062	1.57	A	.320	8.12	.187	4.75
M8358/ 007X005	E2368-312- 200-112- EXHD	.312	7.92	.200	5.08	.112	2.84	.062	1.57	A	.320	8.12	.177	4.49
M8358/ 007X006	E2368-487- 080-244- EXHD	.487	12.37	.080	2.03	.244	6.20	.080	2.03	A	.500	12.7 0	.250	6.35
M8358/ 007X007	E2368-250- 125-125- EXHD	.250	6.35	.125	3.18	.125	3.18	.065	1.65	A	.255	6.47	.150	3.81
E236865DB is a 65-durometer silicone filled with silver-aluminum particles. It's dark blue in color and QPL listed.														
MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions								Config	Rec. Groove Width		Rec. Groove Height	
		A		B		C		D						
M8358/ 007X001	E2368DB-156- 078-045- EXHD	.156	3.96	.078	1.98	.078	1.14	.045	1.14	A	.160	4.06	.093	2.36



M8358/ 007X002	E2368DB-187- 093-093- EXHD	.187	4.75	.093	2.36	.093	1.98	.050	1.27	A	.193	4.90	.107	2.71
M8358/ 007X003	E2368DB-312- 156-156- EXHD	.312	7.92	.156	3.96	.156	2.36	.062	1.57	A	.320	8.12	.187	4.75
M8358/ 007X004	E2368DB-312- 156-156- EXHD	.312	7.92	.156	3.96	.156	3.96	.062	1.57	A	.320	8.12	.187	4.75
M8358/ 007X005	E2368DB-312- 200-112- EXHD	.312	7.92	.200	5.08	.112	2.84	.062	1.57	A	.320	8.12	.177	4.49
M8358/ 007X006	E2368DB-487- 080-244- EXHD	.487	12.37	.080	2.03	.244	6.20	.080	2.03	A	.500	12.7 0	.250	6.35
M8358/ 007X007	E2368DB-250- 125-125- EXHD	.250	6.35	.125	3.18	.125	3.18	.065	1.65	A	.255	6.47	.150	3.81

**E248670** is a 70-durometer fluorosilicone filled with silver-aluminum particles. It's tan in color and QPL listed.

MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions								Config	Rec. Groove Width		Rec. Groove Height	
		A	B	C	D									
M8358/ 007X001	E2486-156- 078-045- EXHD	.156	3.96	.078	1.98	.078	1.14	.045	1.14	A	.160	4.06	.093	2.36
M8358/ 007X002	E2486-187- 093-093- EXHD	.187	4.75	.093	2.36	.093	1.98	.050	1.27	A	.193	4.90	.107	2.71
M8358/ 007X003	E2486-312- 156-156- EXHD	.312	7.92	.156	3.96	.156	2.36	.062	1.57	A	.320	8.12	.187	4.75
M8358/ 007X004	E2486-312- 156-156- EXHD	.312	7.92	.156	3.96	.156	3.96	.062	1.57	A	.320	8.12	.187	4.75
M8358/ 007X005	E2486-312- 200-112- EXHD	.312	7.92	.200	5.08	.112	2.84	.062	1.57	A	.320	8.12	.177	4.49
M8358/ 007X006	E2486-487- 080-244- EXHD	.487	12.37	.080	2.03	.244	6.20	.080	2.03	A	.500	12.7 0	.250	6.35
M8358/ 007X007	E2486-250- 125-125- EXHD	.250	6.35	.125	3.18	.125	3.18	.065	1.65	A	.255	6.47	.150	3.81

**E248670DB** is a 70-durometer fluorosilicone filled with silver-aluminum particles. It's dark blue in color and QPL listed.

		Nominal Dimensions								Config		
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MIL-DTL-83528 Part Number	SSP Part Number	A		B		C		D			Rec. Groove Width		Rec. Groove Height	
M8358/007X001	E2486DB-156-078-045-EXHD	.156	3.96	.078	1.98	.078	1.14	.045	1.14	A	.160	4.06	.093	2.36
M8358/007X002	E2486DB - 187-093-093-EXHD	.187	4.75	.093	2.36	.093	1.98	.050	1.27	A	.193	4.90	.107	2.71
M8358/007X003	E2486DB - 312-156-156-EXHD	.312	7.92	.156	3.96	.156	2.36	.062	1.57	A	.320	8.12	.187	4.75
M8358/007X004	E2486DB - 312-156-156-EXHD	.312	7.92	.156	3.96	.156	3.96	.062	1.57	A	.320	8.12	.187	4.75
M8358/007X005	E2486DB - 312-200-112-EXHD	.312	7.92	.200	5.08	.112	2.84	.062	1.57	A	.320	8.12	.177	4.49
M8358/007X006	E2486DB - 487-080-244-EXHD	.487	12.37	.080	2.03	.244	6.20	.080	2.03	A	.500	12.70	.250	6.35
M8358/007X007	E2486DB - 250-125-125-EXHD	.250	6.35	.125	3.18	.125	3.18	.065	1.65	A	.255	6.47	.150	3.81

**E2529** is a 68-durometer silicone filled with nickel-aluminum particles.

MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions								Config	Rec. Groove Width		Rec. Groove Height	
		A		B		C		D						
M8358/007X001	E2529-156-078-045-EXHD	.156	3.96	.078	1.98	.078	1.14	.045	1.14	A	.160	4.06	.093	2.36
M8358/007X002	E2529-187-093-093-EXHD	.187	4.75	.093	2.36	.093	1.98	.050	1.27	A	.193	4.90	.107	2.71
M8358/007X003	E2529-312-156-156-EXHD	.312	7.92	.156	3.96	.156	2.36	.062	1.57	A	.320	8.12	.187	4.75
M8358/007X004	E2529-312-156-156-EXHD	.312	7.92	.156	3.96	.156	3.96	.062	1.57	A	.320	8.12	.187	4.75
M8358/007X005	E2529-312-200-112-EXHD	.312	7.92	.200	5.08	.112	2.84	.062	1.57	A	.320	8.12	.177	4.49
M8358/007X006	E2529-487-080-244-EXHD	.487	12.37	.080	2.03	.244	6.20	.080	2.03	A	.500	12.70	.250	6.35

M8358/ 007X007	E2529-250- 125-125- EXHD	.250	6.35	.125	3.18	.125	3.18	.065	1.65	A	.255	6.47	.150	3.81
<b>E2551</b> is a 72-durometer silicone filled with nickel-aluminum particles.														
MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions								Config	Rec. Groove Width		Rec. Groove Height	
		A		B		C		D						
M8358/ 007X001	E2551-156- 078-045- EXHD	.156	3.96	.078	1.98	.078	1.14	.045	1.14	A	.160	4.06	.093	2.36
M8358/ 007X002	E2551-187- 093-093- EXHD	.187	4.75	.093	2.36	.093	1.98	.050	1.27	A	.193	4.90	.107	2.71
M8358/ 007X003	E2551-312- 156-156- EXHD	.312	7.92	.156	3.96	.156	2.36	.062	1.57	A	.320	8.12	.187	4.75
M8358/ 007X004	E2551-312- 156-156- EXHD	.312	7.92	.156	3.96	.156	3.96	.062	1.57	A	.320	8.12	.187	4.75
M8358/ 007X005	E2551-312- 200-112- EXHD	.312	7.92	.200	5.08	.112	2.84	.062	1.57	A	.320	8.12	.177	4.49
M8358/ 007X006	E2551-487- 080-244- EXHD	.487	12.37	.080	2.03	.244	6.20	.080	2.03	A	.500	12.7 0	.250	6.35
M8358/ 007X007	E2551-250- 125-125- EXHD	.250	6.35	.125	3.18	.125	3.18	.065	1.65	A	.255	6.47	.150	3.81
<b>E50265</b> is a 65-durometer silicone filled with nickel-graphite particles.														
MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions								Config	Rec. Groove Width		Rec. Groove Height	
		A		B		C		D						
M8358/ 007X001	E50265-156- 078-045- EXHD	.156	3.96	.078	1.98	.078	1.14	.045	1.14	A	.160	4.06	.093	2.36
M8358/ 007X002	E50265-187- 093-093- EXHD	.187	4.75	.093	2.36	.093	1.98	.050	1.27	A	.193	4.90	.107	2.71
M8358/ 007X003	E50265-312- 156-156- EXHD	.312	7.92	.156	3.96	.156	2.36	.062	1.57	A	.320	8.12	.187	4.75
M8358/ 007X004	E50265-312- 156-156- EXHD	.312	7.92	.156	3.96	.156	3.96	.062	1.57	A	.320	8.12	.187	4.75

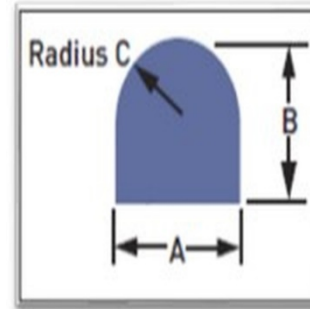
M8358/ 007X005	E50265-312- 200-112- EXHD	.312	7.92	.200	5.08	.112	2.84	.062	1.57	A	.320	8.12	.177	4.49
M8358/ 007X006	E50265-487- 080-244- EXHD	.487	12.37	.080	2.03	.244	6.20	.080	2.03	A	.500	12.7 0	.250	6.35
M8358/ 007X007	E50265-250- 125-125- EXHD	.250	6.35	.125	3.18	.125	3.18	.065	1.65	A	.255	6.47	.150	3.81
<b>E502F60</b> is a 60-durometer fluorosilicone filled with nickel-graphite particles.														
MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions								Config	Rec. Groove Width		Rec. Groove Height	
		A		B		C		D						
M8358/ 007X001	E502F60-156- 078-045- EXHD	.156	3.96	.078	1.98	.078	1.14	.045	1.14	A	.160	4.06	.093	2.36
M8358/ 007X002	E50260F-187- 093-093- EXHD	.187	4.75	.093	2.36	.093	1.98	.050	1.27	A	.193	4.90	.107	2.71
M8358/ 007X003	E502F60-312- 156-156- EXHD	.312	7.92	.156	3.96	.156	2.36	.062	1.57	A	.320	8.12	.187	4.75
M8358/ 007X004	E502F60-312- 156-156- EXHD	.312	7.92	.156	3.96	.156	3.96	.062	1.57	A	.320	8.12	.187	4.75
M8358/ 007X005	E502F60-312- 200-112- EXHD	.312	7.92	.200	5.08	.112	2.84	.062	1.57	A	.320	8.12	.177	4.49
M8358/ 007X006	E502F60-487- 080-244- EXHD	.487	12.37	.080	2.03	.244	6.20	.080	2.03	A	.500	12.7 0	.250	6.35
M8358/ 007X007	E502F60-250- 125-125- EXHD	.250	6.35	.125	3.18	.125	3.18	.065	1.65	A	.255	6.47	.150	3.81

## Solid D

Part number code:

### EXXX-AAA-BBB-EXSD

- EXXXX is the extruded material
- AAA is Dimension A
- BBB is Dimension B
- EXSD indicates it's an extruded solid D



For each of the materials in which SSP makes them, the table below lists standard Solid Ds.

E236865 is a 65-durometer silicone filled with silver-aluminum particles. It's tan in color and QPL listed.											
MIL-DTL-83528 Part Number	SSP Part Number	Dimension A ±.005		Dimension B ±.005 3/		Dimension C ±.005 3/		Recommended Groove Width		Recommended Groove Height	
		M83528/003X001	E2368-031-062-EXSD	.031	.78	.062	1.57	.068	1.73	.065	1.65
M83528/003X002	E2368-047-094-EXSD	.047	1.19	.094	2.39	.078	1.98	.097	2.46	.059	1.50
M83528/003X003	E2368-039-078-EXSD	.039	.99	.078	1.98	.089	2.26	.080	2.03	.066	1.67
M83528/003X004	E2368-047-094-EXSD	.047	1.19	.094	2.39	.094	2.39	.097	2.46	.070	1.78
M83528/003X005	E2368-031-062-EXSD	.031	.78	.062	1.57	.100	2.54	.065	1.65	.075	1.90
M83528/003X006	E2368-031-150-EXSD	.075	1.91	.150	3.81	.110	2.79	.155	3.93	.083	2.10
M83528/003X007	E2368-061-122-EXSD	.061	1.55	.122	3.10	.135	3.43	.125	3.17	.101	2.56
M83528/003X008	E2368-059-118-EXSD	.059	1.49	.118	3.00	.156	3.96	.120	3.04	.117	2.97
M83528/003X009	E2368-078-156-EXSD	.078	1.98	.156	3.96	.156	3.96	.160	4.06	.117	2.97
M83528/003X010	E2368-089-178-EXSD	.089	2.26	.178	4.52	.175	4.45	.181	4.60	.131	3.32
M83528/003X011	E2368-094-188-EXSD	.094	2.39	.188	4.78	.188	4.78	.193	4.90	.141	3.58
M83528/003X012	E2368-125-2506-EXSD	.125	3.18	.250	6.35	.250	6.35	.255	6.47	.187	4.75

E236865DB is a 65-durometer silicone filled with silver-aluminum particles. It's dark blue in color and QPL listed.											
MIL-DTL-83528 Part Number	SSP Part Number	Dimension A ±.005 3/		Dimension B ±.005 /3		Dimension C ±.005 /3		Recommended Groove Width		Recommended Groove Height	
		M83528/003X001	E2368DB-031-062-EXSD	.031	.78	.062	1.57	.068	1.73	.065	1.65
M83528/003X002	E2368DB-047-094-EXSD	.047	1.19	.094	2.39	.078	1.98	.097	2.46	.059	1.50
M83528/003X003	E2368DB-039-078-EXSD	.039	.99	.078	1.98	.089	2.26	.080	2.03	.066	1.67
M83528/003X004	E2368DB-047-094-EXSD	.047	1.19	.094	2.39	.094	2.39	.097	2.46	.070	1.78
M83528/003X005	E2368DB-031-062-EXSD	.031	.78	.062	1.57	.100	2.54	.065	1.65	.075	1.90
M83528/003X006	E2368DB-031-150-EXSD	.075	1.91	.150	3.81	.110	2.79	.155	3.93	.083	2.10
M83528/003X007	E2368DB-061-122-EXSD	.061	1.55	.122	3.10	.135	3.43	.125	3.17	.101	2.56
M83528/003X008	E2368DB-059-118-EXSD	.059	1.49	.118	3.00	.156	3.96	.120	3.04	.117	2.97
M83528/003X009	E2368DB-078-156-EXSD	.078	1.98	.156	3.96	.156	3.96	.160	4.06	.117	2.97
M83528/003X010	E2368DB-089-178-EXSD	.089	2.26	.178	4.52	.175	4.45	.181	4.60	.131	3.32
M83528/003X011	E2368DB-094-188-EXSD	.094	2.39	.188	4.78	.188	4.78	.193	4.90	.141	3.58
M83528/003X012	E2368DB-125-250-EXSD	.125	3.18	.250	6.35	.250	6.35	.255	6.47	.187	4.75
E248670 is a 70-durometer fluorosilicone filled with silver-aluminum particles. It's tan in color and QPL listed.											

MIL-DTL-83528 Part Number	SSP Part Number	Dimension A ±.005 3/		Dimension B ±.005 /3		Dimension C ±.005 /3		Recommended Groove Width		Recommended Groove Height	
M83528/003X001	E2486-031-062-EXSD	.031	.78	.062	1.57	.068	1.73	.065	1.65	.051	1.29
M83528/003X002	E2486-047-094-EXSD	.047	1.19	.094	2.39	.078	1.98	.097	2.46	.059	1.50
M83528/003X003	E2486-039-078-EXSD	.039	.99	.078	1.98	.089	2.26	.080	2.03	.066	1.67
M83528/003X004	E2486-047-094-EXSD	.047	1.19	.094	2.39	.094	2.39	.097	2.46	.070	1.78
M83528/003X005	E2486-031-062-EXSD	.031	.78	.062	1.57	.100	2.54	.065	1.65	.075	1.90
M83528/003X006	E2486-031-150-EXSD	.075	1.91	.150	3.81	.110	2.79	.155	3.93	.083	2.10
M83528/003X007	E2486-061-122-EXSD	.061	1.55	.122	3.10	.135	3.43	.125	3.17	.101	2.56
M83528/003X008	E2486-059-118-EXSD	.059	1.49	.118	3.00	.156	3.96	.120	3.04	.117	2.97
M83528/003X009	E2486-078-156-EXSD	.078	1.98	.156	3.96	.156	3.96	.160	4.06	.117	2.97
M83528/003X010	E2486-089-178-EXSD	.089	2.26	.178	4.52	.175	4.45	.181	4.60	.131	3.32
M83528/003X011	E2486-094-188-EXSD	.094	2.39	.188	4.78	.188	4.78	.193	4.90	.141	3.58
M83528/003X012	E2486-125-250-EXSD	.125	3.18	.250	6.35	.250	6.35	.255	6.47	.187	4.75

**E248670DB** is a 70-durometer fluorosilicone filled with silver-aluminum particles. It's dark blue in color and QPL listed.

MIL-DTL-83528 Part Number	SSP Part Number	Dimension A ±.005 3/		Dimension B ±.005 /3		Dimension C ±.005 /3		Recommended Groove Width		Recommended Groove Height	
M83528/003X001	E2486DB-031-062-EXSD	.031	.78	.062	1.57	.068	1.73	.065	1.65	.051	1.29
M83528/003X002	E2486DB-047-094-EXSD	.047	1.19	.094	2.39	.078	1.98	.097	2.46	.059	1.50
M83528/003X003	E2486DB-039-078-EXSD	.039	.99	.078	1.98	.089	2.26	.080	2.03	.066	1.67

M83528/ 003X004	E2486DB- 047-094- EXSD	.047	1.19	.094	2.39	.094	2.39	.097	2.46	.070	1.78
M83528/ 003X005	E2486DB- 031-062- EXSD	.031	.78	.062	1.57	.100	2.54	.065	1.65	.075	1.90
M83528/ 003X006	E2486DB- 031-150- EXSD	.075	1.91	.150	3.81	.110	2.79	.155	3.93	.083	2.10
M83528/ 003X007	E2486DB- 061-122- EXSD	.061	1.55	.122	3.10	.135	3.43	.125	3.17	.101	2.56
M83528/ 003X008	E2486DB- 059-118- EXSD	.059	1.49	.118	3.00	.156	3.96	.120	3.04	.117	2.97
M83528/ 003X009	E2486DB- 078-156- EXSD	.078	1.98	.156	3.96	.156	3.96	.160	4.06	.117	2.97
M83528/ 003X010	E2486DB- 089-178- EXSD	.089	2.26	.178	4.52	.175	4.45	.181	4.60	.131	3.32
M83528/ 003X011	E2486DB- 094-188- EXSD	.094	2.39	.188	4.78	.188	4.78	.193	4.90	.141	3.58
M83528/ 003X012	E2486DB- 125-250- EXSD	.125	3.18	.250	6.35	.250	6.35	.255	6.47	.187	4.75

**E2529** is a 68-durometer silicone filled with nickel-aluminum particles.

MIL-DTL- 83528 Part Number	SSP Part Number	Dimension A ±.005 /3/		Dimension B ±.005 /3/		Dimension C ±.005 /3/		Recommended Groove Width		Recommended Groove Height	
M83528/ 003X001	E2529-031- 062-EXSD	.031	.78	.062	1.57	.068	1.73	.065	1.65	.051	1.29
M83528/ 003X002	E2529-047- 094-EXSD	.047	1.19	.094	2.39	.078	1.98	.097	2.46	.059	1.50
M83528/ 003X003	E2529-039- 078-EXSD	.039	.99	.078	1.98	.089	2.26	.080	2.03	.066	1.67
M83528/ 003X004	E2529-047- 094-EXSD	.047	1.19	.094	2.39	.094	2.39	.097	2.46	.070	1.78
M83528/ 003X005	E2529-031- 062-EXSD	.031	.78	.062	1.57	.100	2.54	.065	1.65	.075	1.90



M83528/003X006	E2529-031-150-EXSD	.075	1.91	.150	3.81	.110	2.79	.155	3.93	.083	2.10
M83528/003X007	E2529-061-122-EXSD	.061	1.55	.122	3.10	.135	3.43	.125	3.17	.101	2.56
M83528/003X008	E2529-059-118-EXSD	.059	1.49	.118	3.00	.156	3.96	.120	3.04	.117	2.97
M83528/003X009	E2529-078-156-EXSD	.078	1.98	.156	3.96	.156	3.96	.160	4.06	.117	2.97
M83528/003X010	E2529-089-178-EXSD	.089	2.26	.178	4.52	.175	4.45	.181	4.60	.131	3.32
M83528/003X011	E2529-094-188-EXSD	.094	2.39	.188	4.78	.188	4.78	.193	4.90	.141	3.58
M83528/003X012	E2529-125-250-EXSD	.125	3.18	.250	6.35	.250	6.35	.255	6.47	.187	4.75

E2551 is a 72-durometer silicone filled with nickel-aluminum particles.

MIL-DTL-83528 Part Number	SSP Part Number	Dimension A ±.005 3/		Dimension B ±.005 /3		Dimension C ±.005 /3		Recommended Groove Width		Recommended Groove Height	
M83528/003X001	E2551-031-062-EXSD	.031	.78	.062	1.57	.068	1.73	.065	1.65	.051	1.29
M83528/003X002	E2551-047-094-EXSD	.047	1.19	.094	2.39	.078	1.98	.097	2.46	.059	1.50
M83528/003X003	E2551-039-078-EXSD	.039	.99	.078	1.98	.089	2.26	.080	2.03	.066	1.67
M83528/003X004	E2551-047-094-EXSD	.047	1.19	.094	2.39	.094	2.39	.097	2.46	.070	1.78
M83528/003X005	E2551-031-062-EXSD	.031	.78	.062	1.57	.100	2.54	.065	1.65	.075	1.90
M83528/003X006	E2551-031-150-EXSD	.075	1.91	.150	3.81	.110	2.79	.155	3.93	.083	2.10
M83528/003X007	E2551-061-122-EXSD	.061	1.55	.122	3.10	.135	3.43	.125	3.17	.101	2.56
M83528/003X008	E2551-059-118-EXSD	.059	1.49	.118	3.00	.156	3.96	.120	3.04	.117	2.97
M83528/003X009	E2551-078-156-EXSD	.078	1.98	.156	3.96	.156	3.96	.160	4.06	.117	2.97
M83528/003X010	E2551-089-178-EXSD	.089	2.26	.178	4.52	.175	4.45	.181	4.60	.131	3.32

M83528/ 003X011	E2551-094- 188-EXSD	.094	2.39	.188	4.78	.188	4.78	.193	4.90	.141	3.58
M83528/ 003X012	E2551-125- 250-EXSD	.125	3.18	.250	6.35	.250	6.35	.255	6.47	.187	4.75
<b>E50265</b> is a 65-durometer silicone filled with nickel-graphite particles.											
<b>MIL-DTL- 83528 Part Number</b>	<b>SSP Part Number</b>	<b>Dimension A ±.005 3/</b>		<b>Dimension B ±.005 /3</b>		<b>Dimension C ±.005 /3</b>		<b>Recommended Groove Width</b>		<b>Recommended Groove Height</b>	
M83528/ 003X001	E50265- 031-062- EXSD	.031	.78	.062	1.57	.068	1.73	.065	1.65	.051	1.29
M83528/ 003X002	E50265- 094-EXSD	.047	1.19	.094	2.39	.078	1.98	.097	2.46	.059	1.50
M83528/ 003X003	E50265- 039-078- EXSD	.039	.99	.078	1.98	.089	2.26	.080	2.03	.066	1.67
M83528/ 003X004	E50265- 047-094- EXSD	.047	1.19	.094	2.39	.094	2.39	.097	2.46	.070	1.78
M83528/ 003X005	E50265- 031-062- EXSD	.031	.78	.062	1.57	.100	2.54	.065	1.65	.075	1.90
M83528/ 003X006	E50265- 031-150- EXSD	.075	1.91	.150	3.81	.110	2.79	.155	3.93	.083	2.10
M83528/ 003X007	E50265- 061-122- EXSD	.061	1.55	.122	3.10	.135	3.43	.125	3.17	.101	2.56
M83528/ 003X008	E50265- 059-118- EXSD	.059	1.49	.118	3.00	.156	3.96	.120	3.04	.117	2.97
M83528/ 003X009	E50265- 078-156- EXSD	.078	1.98	.156	3.96	.156	3.96	.160	4.06	.117	2.97
M83528/ 003X010	E50265- 089-178- EXSD	.089	2.26	.178	4.52	.175	4.45	.181	4.60	.131	3.32
M83528/ 003X011	E50265- 094-188- EXSD	.094	2.39	.188	4.78	.188	4.78	.193	4.90	.141	3.58

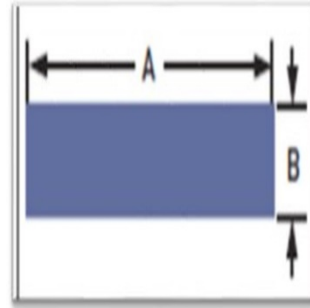
M83528/ 003X012	E50265- 125-250- EXSD	.125	3.18	.250	6.35	.250	6.35	.255	6.47	.187	4.75
<b>E502F60</b> is a 60-durometer fluorosilicone filled with nickel-graphite particles.											
<b>MIL-DTL- 83528 Part Number</b>	<b>SSP Part Number</b>	<b>Dimension A ±.005 3/</b>		<b>Dimension B ±.005 /3</b>		<b>Dimension C ±.005 /3</b>		<b>Recommended Groove Width</b>		<b>Recommended Groove Height</b>	
M83528/ 003X001	E502F60- 031-062- EXSD	.031	.78	.062	1.57	.068	1.73	.065	1.65	.051	1.29
M83528/ 003X002	E502F60- 047-094- EXSD	.047	1.19	.094	2.39	.078	1.98	.097	2.46	.059	1.50
M83528/ 003X003	E502F60- 039-078- EXSD	.039	.99	.078	1.98	.089	2.26	.080	2.03	.066	1.67
M83528/ 003X004	E502F60- 047-094- EXSD	.047	1.19	.094	2.39	.094	2.39	.097	2.46	.070	1.78
M83528/ 003X005	E502F60- 031-062- EXSD	.031	.78	.062	1.57	.100	2.54	.065	1.65	.075	1.90
M83528/ 003X006	E502F60- 031-150- EXSD	.075	1.91	.150	3.81	.110	2.79	.155	3.93	.083	2.10
M83528/ 003X007	E502F60- 061-122- EXSD	.061	1.55	.122	3.10	.135	3.43	.125	3.17	.101	2.56
M83528/ 003X008	E502F60- 059-118- EXSD	.059	1.49	.118	3.00	.156	3.96	.120	3.04	.117	2.97
M83528/ 003X009	E502F60- 078-156- EXSD	.078	1.98	.156	3.96	.156	3.96	.160	4.06	.117	2.97
M83528/ 003X010	E502F60- 089-178- EXSD	.089	2.26	.178	4.52	.175	4.45	.181	4.60	.131	3.32
M83528/ 003X011	E502F60- 094-188- EXSD	.094	2.39	.188	4.78	.188	4.78	.193	4.90	.141	3.58
M83528/ 003X012	E502F60- 125-250- EXSD	.125	3.18	.250	6.35	.250	6.35	.255	6.47	.187	4.75

## Solid Rectangle

Part number code:

### EXXX-AAA-BBB-EXSR

- EXXXX is the extruded material
- AAA is Dimension A
- BBB is Dimension B
- EXSD indicates it's an extruded solid rectangle



For each of the materials in which SSP makes them, the table below lists standard Solid Rectangle.

E236865 is a 65-durometer silicone filled with silver-aluminum particles. It's tan in color and QPL listed.					
MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions			
		A (Width)		B (Height)	
M83528/ 009X001	E2368-063-042-EXSR	.063	1.60	.042	1.07
M83528/ 009X002	E2368-095-062-EXSR	.095	2.41	.062	1.57
M83528/ 009X003	E2368-120-075-EXSR	.120	3.05	.075	1.91
M83528/ 009X004	E2368-125-062-EXSR	.125	3.18	.062	1.57
M83528/ 009X005	E2368-156-062-EXSR	.156	3.96	.062	1.57
M83528/ 009X006	E2368-250-062-EXSR	.250	6.35	.062	1.57
M83528/ 009X007	E2368-500-075-EXSR	.500	12.70	.075	1.91
M83528/ 009X008	E2368-500-125-EXSR	.500	12.70	.125	3.18
M83528/ 009X009	E2368-500-188-EXSR	.500	12.70	.188	4.78
M83528/ 009X010	E2368-750-062-EXSR	.750	19.05	.062	1.57
M83528/ 009X011	E2368-880-062-EXSR	.880	22.35	.062	1.57
M83528/ 009X012	E2368-100-250-EXSR	1.000	25.40	.250	6.35

M83528/ 009X013	E2368-118-062-EXSR	1.180	29.97	.062	1.57
N/A	E2368-093-093-EXSR	.093	2.36	.093	2.36
N/A	E2368-500-250-EXSR	.500	12.70	.250	6.35
N/A	E2368-650-032-EXSR	.650	16.51	.032	.81
N/A	E2368-250-032-EXSR	.250	6.35	.032	.81
N/A	E2368-063-032-EXSR	.063	1.60	.032	.81
<b>E236865DB</b> is a 65-durometer silicone filled with silver-aluminum particles. It's tan in color and QPL listed.					
MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions			
		A (Width)		B (Height)	
M83528/ 009X001	E2368DB-063-042-EXSR	.063	1.60	.042	1.07
M83528/ 009X002	E2368DB-095-062-EXSR	.095	2.41	.062	1.57
M83528/ 009X003	E2368DB-120-075-EXSR	.120	3.05	.075	1.91
M83528/ 009X004	E2368DB-125-062-EXSR	.125	3.18	.062	1.57
M83528/ 009X005	E2368DB-156-062-EXSR	.156	3.96	.062	1.57
M83528/ 009X006	E2368DB-250-062-EXSR	.250	6.35	.062	1.57
M83528/ 009X007	E2368DB-500-075-EXSR	.500	12.70	.075	1.91
M83528/ 009X008	E2368DB-500-125-EXSR	.500	12.70	.125	3.18
M83528/ 009X009	E2368DB-500-188-EXSR	.500	12.70	.188	4.78
M83528/ 009X010	E2368DB-750-062-EXSR	.750	19.05	.062	1.57
M83528/ 009X011	E2368DB-880-062-EXSR	.880	22.35	.062	1.57
M83528/ 009X012	E2368DB-100-250-EXSR	1.000	25.40	.250	6.35
M83528/ 009X013	E2368DB-118-062-EXSR	1.180	29.97	.062	1.57

N/A	E2368DB-093-093-EXSR	.093	2.36	.093	2.36
N/A	E2368DB-500-250-EXSR	.500	12.70	.250	6.35
N/A	E2368DB-650-032-EXSR	.650	16.51	.032	.81
N/A	E2368DB-250-032-EXSR	.250	6.35	.032	.81
N/A	E2368DB-063-032-EXSR	.063	1.60	.032	.81
<b>E248670</b> is a 70-durometer fluorosilicone filled with silver-aluminum particles. It's tan in color and QPL listed.					
MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions			
		A (Width)		B (Height)	
M83528/ 009X001	E2486-063-042-EXSR	.063	1.60	.042	1.07
M83528/ 009X002	E2486-095-062-EXSR	.095	2.41	.062	1.57
M83528/ 009X003	E2486-120-075-EXSR	.120	3.05	.075	1.91
M83528/ 009X004	E2486-125-062-EXSR	.125	3.18	.062	1.57
M83528/ 009X005	E2486-156-062-EXSR	.156	3.96	.062	1.57
M83528/ 009X006	E2486-250-062-EXSR	.250	6.35	.062	1.57
M83528/ 009X007	E2486-500-075-EXSR	.500	12.70	.075	1.91
M83528/ 009X008	E2486-500-125-EXSR	.500	12.70	.125	3.18
M83528/ 009X009	E2486-500-188-EXSR	.500	12.70	.188	4.78
M83528/ 009X010	E2486-750-062-EXSR	.750	19.05	.062	1.57
M83528/ 009X011	E2486-880-062-EXSR	.880	22.35	.062	1.57
M83528/ 009X012	E2486-100-250-EXSR	1.000	25.40	.250	6.35
M83528/ 009X013	E2486-118-062-EXSR	1.180	29.97	.062	1.57
N/A	E2486-093-093-EXSR	.093	2.36	.093	2.36
N/A	E2486-500-250-EXSR	.500	12.70	.250	6.35

N/A	E2486-650-032-EXSR	.650	16.51	.032	.81
N/A	E2486-250-032-EXSR	.250	6.35	.032	.81
N/A	E2486-063-032-EXSR	.063	1.60	.032	.81
<b>E248670DB</b> is a 70-durometer fluorosilicone filled with silver-aluminum particles. It's dark blue in color and QPL listed.					
MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions			
		A (Width)		B (Height)	
M83528/ 009X001	E2486DB-063-042-EXSR	.063	1.60	.042	1.07
M83528/ 009X002	E2468DB-095-062-EXSR	.095	2.41	.062	1.57
M83528/ 009X003	E2468DB-120-075-EXSR	.120	3.05	.075	1.91
M83528/ 009X004	E2468DB-125-062-EXSR	.125	3.18	.062	1.57
M83528/ 009X005	E2468DB-156-062-EXSR	.156	3.96	.062	1.57
M83528/ 009X006	E2468DB-250-062-EXSR	.250	6.35	.062	1.57
M83528/ 009X007	E2468DB-500-075-EXSR	.500	12.70	.075	1.91
M83528/ 009X008	E2468DB-500-125-EXSR	.500	12.70	.125	3.18
M83528/ 009X009	E2468DB-500-188-EXSR	.500	12.70	.188	4.78
M83528/ 009X010	E2468DB-750-062-EXSR	.750	19.05	.062	1.57
M83528/ 009X011	E2468DB-880-062-EXSR	.880	22.35	.062	1.57
M83528/ 009X012	E2468DB-100-250-EXSR	1.000	25.40	.250	6.35
M83528/ 009X013	E2468DB-118-062-EXSR	1.180	29.97	.062	1.57
N/A	E2468DB-093-093-EXSR	.093	2.36	.093	2.36
N/A	E2468DB-500-250-EXSR	.500	12.70	.250	6.35
N/A	E2468DB-650-032-EXSR	.650	16.51	.032	.81
N/A	E2468DB-250-032-EXSR	.250	6.35	.032	.81

N/A	E2468DB-063-032-EXSR	.063	1.60	.032	.81
<b>E2529</b> is a 68-durometer silicone filled with nickel-aluminum particles.					
MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions			
		A (Width)		B (Height)	
M83528/ 009X001	E2529-063-042-EXSR	.063	1.60	.042	1.07
M83528/ 009X002	E2529-095-062-EXSR	.095	2.41	.062	1.57
M83528/ 009X003	E2529-120-075-EXSR	.120	3.05	.075	1.91
M83528/ 009X004	E2529-125-062-EXSR	.125	3.18	.062	1.57
M83528/ 009X005	E2529-156-062-EXSR	.156	3.96	.062	1.57
M83528/ 009X006	E2529-250-062-EXSR	.250	6.35	.062	1.57
M83528/ 009X007	E2529-500-075-EXSR	.500	12.70	.075	1.91
M83528/ 009X008	E2529-500-125-EXSR	.500	12.70	.125	3.18
M83528/ 009X009	E2529-500-188-EXSR	.500	12.70	.188	4.78
M83528/ 009X010	E2529-750-062-EXSR	.750	19.05	.062	1.57
M83528/ 009X011	E2529-880-062-EXSR	.880	22.35	.062	1.57
M83528/ 009X012	E2529-100-250-EXSR	1.000	25.40	.250	6.35
M83528/ 009X013	E2529-118-062-EXSR	1.180	29.97	.062	1.57
N/A	E2529-093-093-EXSR	.093	2.36	.093	2.36
N/A	E2529-500-250-EXSR	.500	12.70	.250	6.35
N/A	E2529-650-032-EXSR	.650	16.51	.032	.81
N/A	E2529-250-032-EXSR	.250	6.35	.032	.81
N/A	E2529-063-032-EXSR	.063	1.60	.032	.81
<b>E2551</b> is a 72-durometer silicone filled with nickel-aluminum particles.					



MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions			
		A (Width)		B (Height)	
M83528/ 009X001	E2551-063-042-EXSR	.063	1.60	.042	1.07
M83528/ 009X002	E2551-095-062-EXSR	.095	2.41	.062	1.57
M83528/ 009X003	E2551-120-075-EXSR	.120	3.05	.075	1.91
M83528/ 009X004	E2551-125-062-EXSR	.125	3.18	.062	1.57
M83528/ 009X005	E2551-156-062-EXSR	.156	3.96	.062	1.57
M83528/ 009X006	E2551-250-062-EXSR	.250	6.35	.062	1.57
M83528/ 009X007	E2551-500-075-EXSR	.500	12.70	.075	1.91
M83528/ 009X008	E2551-500-125-EXSR	.500	12.70	.125	3.18
M83528/ 009X009	E2551-500-188-EXSR	.500	12.70	.188	4.78
M83528/ 009X010	E2551-750-062-EXSR	.750	19.05	.062	1.57
M83528/ 009X011	E2551-880-062-EXSR	.880	22.35	.062	1.57
M83528/ 009X012	E2551-100-250-EXSR	1.000	25.40	.250	6.35
M83528/ 009X013	E2551-118-062-EXSR	1.180	29.97	.062	1.57
N/A	E2551-093-093-EXSR	.093	2.36	.093	2.36
N/A	E2551-500-250-EXSR	.500	12.70	.250	6.35
N/A	E2551-650-032-EXSR	.650	16.51	.032	.81
N/A	E2551-250-032-EXSR	.250	6.35	.032	.81
N/A	E2551-063-032-EXSR	.063	1.60	.032	.81
<b>E50265</b> is a 65-durometer silicone filled with nickel-graphite particles.					
MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions			
		A (Width)		B (Height)	

M83528/ 009X001	E50265-063-042-EXSR	.063	1.60	.042	1.07
M83528/ 009X002	E50265-095-062-EXSR	.095	2.41	.062	1.57
M83528/ 009X003	E50265-120-075-EXSR	.120	3.05	.075	1.91
M83528/ 009X004	E50265-125-062-EXSR	.125	3.18	.062	1.57
M83528/ 009X005	E50265-156-062-EXSR	.156	3.96	.062	1.57
M83528/ 009X006	E50265-250-062-EXSR	.250	6.35	.062	1.57
M83528/ 009X007	E50265-500-075-EXSR	.500	12.70	.075	1.91
M83528/ 009X008	E50265-500-125-EXSR	.500	12.70	.125	3.18
M83528/ 009X009	E50265-500-188-EXSR	.500	12.70	.188	4.78
M83528/ 009X010	E50265-750-062-EXSR	.750	19.05	.062	1.57
M83528/ 009X011	E50265-880-062-EXSR	.880	22.35	.062	1.57
M83528/ 009X012	E50265-100-250-EXSR	1.000	25.40	.250	6.35
M83528/ 009X013	E50265-118-062-EXSR	1.180	29.97	.062	1.57
N/A	E50265-093-093-EXSR	.093	2.36	.093	2.36
N/A	E50265-500-250-EXSR	.500	12.70	.250	6.35
N/A	E50265-650-032-EXSR	.650	16.51	.032	.81
N/A	E50265-250-032-EXSR	.250	6.35	.032	.81
N/A	E50265-063-032-EXSR	.063	1.60	.032	.81
<b>E502F60</b> is a 60-durometer fluorosilicone filled with nickel-graphite particles.					
MIL-DTL-83528 Part Number	SSP Part Number	Nominal Dimensions			
		A (Width)		B (Height)	
M83528/ 009X001	E502F60-063-042-EXSR	.063	1.60	.042	1.07

M83528/ 009X002	E502F60-095-062-EXSR	.095	2.41	.062	1.57
M83528/ 009X003	E502F60-120-075-EXSR	.120	3.05	.075	1.91
M83528/ 009X004	E502F60-125-062-EXSR	.125	3.18	.062	1.57
M83528/ 009X005	E502F60-156-062-EXSR	.156	3.96	.062	1.57
M83528/ 009X006	E502F60-250-062-EXSR	.250	6.35	.062	1.57
M83528/ 009X007	E502F60-500-075-EXSR	.500	12.70	.075	1.91
M83528/ 009X008	E502F60-500-125-EXSR	.500	12.70	.125	3.18
M83528/ 009X009	E502F60-500-188-EXSR	.500	12.70	.188	4.78
M83528/ 009X010	E502F60-750-062-EXSR	.750	19.05	.062	1.57
M83528/ 009X011	E502F60-880-062-EXSR	.880	22.35	.062	1.57
M83528/ 009X012	E50260F-100-250-EXSR	1.000	25.40	.250	6.35
M83528/ 009X013	E502F60-118-062-EXSR	1.180	29.97	.062	1.57
N/A	E502F60-093-093-EXSR	.093	2.36	.093	2.36
N/A	E502F60-500-250-EXSR	.500	12.70	.250	6.35
N/A	E502F60-650-032-EXSR	.650	16.51	.032	.81
N/A	E502F60-250-032-EXSR	.250	6.35	.032	.81
N/A	E502F60-063-032-EXSR	.063	1.60	.032	.81

## White Paper: O-Rings and Seals Made from Conductive Extrusions

Learn more about conductive extrusions made from vulcanized O-rings and seals.

### Bonded EMI O-Rings for Reduced Costs and Improved Performance



Bonded EMI O-rings need to provide reliable protection against electromagnetic interference (EMI) in medical, military, automotive, aerospace, and other demanding applications. The shielding silicones that are formed into cords or shapes for these donut-shaped parts must also ensure environmental sealing and electrical conductivity.

Selecting the right EMI silicone is important, but so is the choice of a bonding process. Otherwise, bonded EMI O-rings may cost too much or fail to meet performance requirements.

Today, many manufacturers bond EMI O-rings with a non-conductive RTV silicone adhesive that lacks an EMI filler. This makes it possible for radio waves to penetrate the joint and create EMI in the end product. Manufacturers who use a non-conductive, non-silicone adhesive also risk EMI leakage, but that's not the only problem they face.

Non-silicone glues such as acrylics dry to a much harder durometer than the EMI silicone cord itself. This leaves a "hard spot" in the finished gasket. Plus, acrylic adhesives cannot match the temperature range of the EMI cord material. If the bonded O-ring is subjected to very high or very low temperatures, the joint may break easily. This is a significant risk in military, aerospace, and satellite communications.

### Molding vs. Bonding



Buyers in all industries want cost-effective parts, but not at the expense of performance. They also want shorter lead times and less risk. Molded EMI O-rings don't require bonding, which reduces the risk of EMI leakage. Yet, there are tradeoffs.

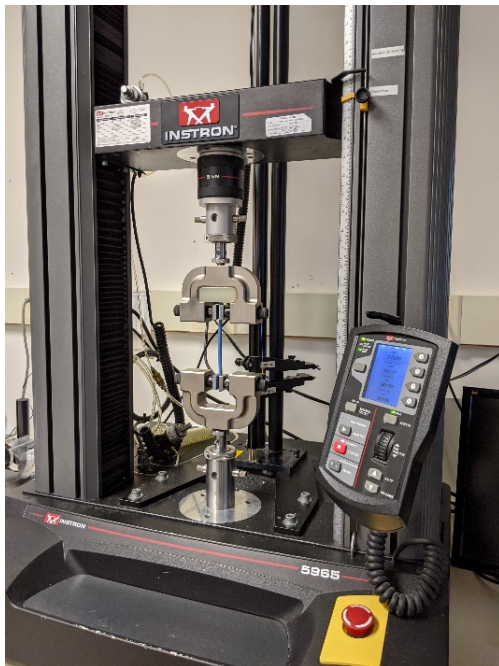
Molding requires tooling that's complex, expensive, and takes longer to produce. If the mold is incorrect, buyers face project delays and cost overruns. Because EMI O-rings are jammed into a tight space, part deformation can result in dimensions that are different from drawings.



Bonded EMI O-rings from Specialty Silicone Products (SSP) use tooling that's faster and less expensive to produce. We build the tools and extrude the EMI cords at our ISO 9001:2015 manufacturing facility in Ballston Spa, New York (USA). With our in-house capabilities, we can supply you with more prototypes of bonded EMI O-rings than you'd get if you waited for a single molded one. Whether it's for prototyping or production, our tooling costs are lower and the lead times are faster than with molded parts.

Importantly, the bonding technique that SSP uses is more reliable than other joining methods and enables us to control quality. Our hot splicing method applies heat and pressure to a conductive silicone with a durometer similar to the EMI cord itself. In addition to reducing the risk of EMI leakage, this eliminates the "hard spot" you'll find in other gaskets. Then, because our method uses silicone instead of acrylic, the joint has better temperature resistance for more reliable performance under extreme conditions.

### SSP's Bonded EMI O-Ring Project



To demonstrate the advantages of our bonded EMI O-rings, SSP produced vulcanized samples with our tooling and materials. A primary goal was to prove that our products are as good as molded EMI O-rings. During development testing, benchmark and scale-up trials were performed using different EMI cords in various shapes and sizes. During each trial, we visually inspected bonded EMI O-rings for defects. We also measured bond strength and developed length, and then compared the data to standards.

Statistical analysis validated the consistency of production and our adherence to specifications. Multiple quality control (QC) checkpoints were used. At SSP, startup and in-process QC checkpoints ensure that all input materials are properly identified, equipment is operating as expected, and EMI O-rings are within specifications. Bonded EMI O-rings were compared to visual acceptance standards from customers, and a final QC checkpoint occurred after the production of each batch. The Instron tensile tester (above) is some of the equipment we used.

The splicing tool, or mold, that we used to hold O-rings in place was made with our in-house CNC equipment. Because SSP has its own tool room, we can easily customize shapes or cross-sections for customer projects. The original equipment manufacturers (OEMs) who order from us like this flexibility, but they also appreciate the consistent quality of the finished product. When an installer smashes a bonded EMI O-ring into a groove, the part fits and the joint holds.

## The OEM Example

Consider an example where an OEM orders molded EMI O-rings with a .093 inch cross-section and 4.9 inch diameter. For prototyping purposes, the manufacturer needs a small, one-cavity mold. The lead time is 6 to 8 weeks and the mold costs between \$2000 and \$3000. Prototypes are molded according to the part drawing, but there's a problem during fit testing because the molded EMI O-rings are too large. The molder made the O-rings to spec, but the measurements were still incorrect.

Next, the OEM orders O-rings with a diameter of 4.7 inches. The new part fits but the total lead time to get a first article is longer because of tooling changes. Even if the original mold can be machined to the part's smaller size, there are additional costs. Then the OEM orders a more expensive production mold. The wait time is another 6 to 8 weeks with an estimated cost between \$5,000 and \$15,000. Along with months of lost time, this project faces tooling costs as high as \$18,000.

If the OEM had ordered bonded EMI O-rings from SSP instead, the benefits would have been significant. For starters, SSP could have shipped samples with diameters of 4.7, 4.8, and 4.9 inches. By using a single hot splice tool instead of larger and smaller molds, we can cut three different lengths before vulcanizing the ends. If the OEM confirmed that 4.7 inch O-ring fit, SSP could have extruded more cord and started making production parts without extended lead times and added tooling expenses.

Bonding EMI O-rings provide a fast, cost-effective alternative to molded ones. Yet, OEMs can't afford to sacrifice performance. Other manufacturers offer bonded O-rings, but some use non-conductive silicone adhesives that risk EMI leakage. Other manufacturers use non-conductive, non-silicone adhesives that leave a hard spot in the gasket and that have a different temperature range than the EMI silicone cord. If you need EMI O-rings that both reduce costs and improve performance, contact Specialty Silicone Products.



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