

# Material Specifications

Spira's EMI/RFI products are made using the finest materials and processes in compliance with AS9100 and ISO 9001. Material certifications are available upon request when your order is placed. Materials used are typically purchased to the following specifications unless otherwise noted or requested.

Material	Component / Process	Specification	Storage Temp	Operating Temp
Spiral	Beryllium Copper	ASTM-B-194	Ambient	-73 to 232° C, -100 to 450° F
	Stainless Steel	AMS-5906	Ambient	< 704° C, < 1300° F
Plating	Chemical Film	MIL-DTL-5541 Class 3	Ambient	< 66° C, < 150° F
	Chemical Film (RoHS)	MIL-DTL-5541 Class 3, Color Clear	Ambient	< 66° C, < 150° F
	Gold	MIL-DTL-45204, Type II, Grade C, Class 1	Ambient	< 274° C, < 525° F
	Pure Tin (RoHS)	ASTM-B-545	Ambient	< 150° C, < 302° F
	Tin-Lead	90% Tin, 10% Lead per AMS-P-81728	Ambient	< 150° C, < 302° F
	Sulfamate Nickel	AMS-QQ-N-290B, Class 2	Ambient	< 649° C, < 1200° F
Rubber	EPDM (Solid)	ASTM D2000 M3 BA	Ambient	-80 to 275° C, -112 to 527° F
	Fluorosilicone (Solid)	Blue per AMS-R-25988, Type II, Class I, Grade 40	Ambient	-62 to 204° C, -80 to 400° F
	Fluorosilicone (Sponge)	AMS-3323	Ambient	-62 to 204° C, -80 to 400° F
	Neoprene (Sponge)	ASTM-D-6576, Type II, Grade A, Condition-Medium	Ambient	-54 to 121° C, -65 to 250° F
	PVC Cord	Commercial Grade	Ambient	-30 to 160° C, -22 to 320° F
	Silicone (Solid)	A-A-59588, Class 2B, Grade 40 or 60 See product spec sheet for grade.	Ambient	-38 to 204° C, -100 to 400° F
	Silicone (Sponge)	Red per ASTM-D-6576, Type II, Grade C, Condition-Medium	Ambient	-38 to 204° C, -100 to 400° F
	Thermal Plastic Rubber	ASTM-D-2000 CA710, C32, EA14, F19	Ambient	-80 to 275° C, -112 to 527° F
Adhesive	Epoxy	2216 B/A per ASTM-D-2000	Ambient	-80 to 275° C, -112 to 527° F
	Fluorosilicone (Enduro-Shield core)	Dow Corning 730 RTV	≤ 32° C	-57 to 260° C, -71 to 500° F
	Fluorosilicone (Red)	Dow Corning Q4-2817 Sealant	≤ 32° C	-57 to 260° C, -71 to 500° F
	Neoprene (Contact Cement)	MMM-A-1617, TYPE II	-16° to 27° C	-67 to 177° C, -89 to 351° F
	PSA (Neoprene)	Rubber/Acrylic adhesive	Ambient	-34 to 65° C, -30 to 150° F
	PSA (Silicone & Fluorosilicone)	Acrylic Adhesive	24° C	-40 to 121° C, -40 to 250° F
	Silicone (Enduro-Shield standard core)	Dow Corning 732 RTV Per MIL-A-46106, Group I, Type I	≤ 32° C	-60 to 177° C, -76 to 351° F
	Silicone (Enduro-Shield Stainless Steel gaskets)	Dow Corning 737	≤ 32° C	-65 to 177° C, -85 to 351° F
	Silicone (Non-acetic acid base)	Dow Corning 3145 RTV Per MIL-A-46146, Group II, Type I	≤ 32° C	-50 to 200° C, -58 to 392° F
	Silicone (White, non-outgassing)	Dow Corning 61125	≤ 32° C	-60 to 177° C, -76 to 351° F
Other	Connector-Seal Metal Frame/Core	6061-T6 Aluminum per AMS-4027 (SSCG)	Ambient	< 343° C, < 650° F
		Stainless Steel per AMS-5516M (Core)	Ambient	< 704° C, < 1300° F
	Dovetail Groove Cutter	Tungsten Carbide	Ambient	N/A
	AirVent Filter Extrusion	6061-T4 Aluminum per AMS-QQ-A-200/8	Ambient	< 343° C, < 650° F
	Fan Filter Frame	6061-T4 Aluminum per AMS-4026	Ambient	< 343° C, < 650° F
	Honeycomb Panel	Aluminum per AMS-C-7438	Ambient	< 204° C, < 400° F
		Brass per ASTM-B-36/B 36M Foil soldered together per ASTM-B-32	Ambient	< 230° C, < 446° F
Threaded Insert	Cadmium plated Alum. AMS-QQ-P-416	Ambient	N/A	