

Wire & Expanded Metal Gasket Technology

Parker Chomerics offers one of the broadest selections of metal-based gaskets solutions available anywhere for ElectroMagnetic Interference (EMI) and ElectroMagnetic Pulse (EMP) shielding as well as lightning strike protection.

These products include three distinct families; knitted wire, oriented wire in silicone and expanded metal.

Cost-effective, metal-based shielding products have been used for decades in countless military and commercial market applications. Because of their high metal content, these gaskets typically provide 60 to 100 dB of attenuation in the 20 MHz to 20 GHz range.

In addition to hundreds of standard parts, Parker Chomerics routinely supports unique applications with custom gasket configurations and materials. With a focus on application-based engineering, we can direct designers to the most cost-effective, specification matched, metal gasket solution.

Please reference the technical data associated with each of the following products for more in-depth information regarding performance, standard materials and sizes and typical applications.

STANDARD MATERIAL SPECIFICATIONS								
Gasketing Types	ELASTOMERS				METALS			
	Silicone*		Neoprene*		Aluminum	Ferrex	Monel	Tin-Plated Steel
	Solid	Closed Cell Sponge	Solid	Closed Cell Sponge				
MESH STRIP® (all metal)	-	-	-	-	Alloy 5056 AMS-4182	**	QQ-N-281 AMS-4730	-
MESH STRIP® (elastomer core)	A-A-59588 Class 2B Grade 40	AMS-3195	MIL-R-6855 Class II, Grade 40	MIL-R-6130 Type II, Grade A, Condition Medium	Alloy 5056 AMS-4182	**	QQ-N-281 AMS-4730	-
COMBO STRIP®/COMBO® Gaskets (mesh/elastomer)	A-A-59588 Class 2B Grade 40	AMS-3195	MIL-R-6855 Class II, Grade 40	MIL-R-6130 Type II, Grade A, Condition Medium	Alloy 5056 AMS-4182	**	QQ-N-281 AMS-4730	-
POLASHEET®/POLASTRIP® (oriented wire in elastomer)	A-A-59588 Class 3A Grade 30	AMS-3195	-	-	Alloy 5056 AMS-4182	-	QQ-N-281 AMS-4730	-
PORCUPINE METALASTIC® (expanded monel in elastomer)	A-A-59588 Class 2B Grade 50	-	-	-	QQ-A-250/2 3003 AL	-	QQ-N-281 (expanded)	-
METALASTIC® (woven aluminum in elastomer)	A-A-59588 Class 2B Grade 50	-	AMS-3222	-	Alloy 5056 AMS-4182	-	-	-
SHIELDMESH® (compressed mesh)	-	-	-	-	Alloy 5056 AMS-4182	**	QQ-N-281 AMS-4730	-
SPRINGMESH™	-	-	-	-	-	-	-	ASTM A 228-02 SAE J178

* Temperature Ranges:

Silicone-solid, MESH STRIP w/Core & COMBO STRIP: A-A-59588, Class 2B, Grade 40. -70° to +500°F [-57° to 260°C].
 Silicone-solid, POLASHEET and POLASTRIP: A-A-59588, Class 3A, Grade 30. -70° to +500°F [-57° to 260°C].
 Silicone-sponge, POLASHEET and POLASTRIP: AMS-3195, -80° to +400°F [-62° to +204°C].
 Silicone-solid, PORCUPINE & METALASTIC gasketing: A-A-59588 Class 2B Grade 50, -65° to +500°F [-54° to +260°C].
 Neoprene-solid, MESH STRIP w/Core & COMBO STRIP: MIL-R-6855, Class II, Grade 40, -45° to +220°F [-43° to +104°C].
 Neoprene-solid, METALASTIC gasketing: AMS-3222, -65° to +500°F [-54° to +260°C].
 Neoprene-sponge, MESH STRIP w/Core & COMBO STRIP: MIL-R-6130, Type II, Grade A, -30° to +150°F [-34° to +65°C], meets UL 94HF-1 rating.

** Ferrex is Parker Chomerics tradename for tin-plated, copper-clad steel wire per ASTM B-520, ASTM (QQ-W-343) tin-plated, 2-3% by weight; ASTM B-227 copper-cladding 30-40% by weight; SAE 1010 steel wire, balance by weight and is the same as Tecknit Su/Cu/Fe which Ferrex replaces.

www.chomerics.com
www.parker.com/chomerics

CHOMERICS is a registered trademarks of Parker Hannifin Corporation. © 2013

TB 1102 EN April 2013



ENGINEERING YOUR SUCCESS.