Wire Mesh Gasket Technology

Chomerics offers the broadest range of metal-based EMI gaskets available anywhere.

These products include knitted wire mesh, mesh over elastomer core, oriented wires in elastomers, and metal screen- or expanded foil-impregnated elastomers.

Cost-effective, metal-based shielding products have been used for decades in countless commercial market applications. They typically provide 60 to 100 dB attenuation between 20 MHz and 10 GHz. These composites are also well suited for military-aerospace applications that do not require shielding levels above 80 to 90 dB at frequencies above 1 GHz, or exceptional sealing properties.

For performance information on products listed in this section, refer to the Performance Data Section that begins on page 124.

In addition to hundreds of standard parts listed here, Chomerics routinely supports special needs with custom configurations. With our "octane" product concept, we can direct designers to the most cost-effective, specification-matched metal gasket solution.

"Quick-Cut" Technology

Wire mesh gaskets are available as pre-cut custom lengths that are terminated through a special process which eliminates frayed ends. This technology provides a highly economical, quality solution for cutting and terminating large volumes of parts. Contact our Applications Engineering Department for more information.

STANDARD MATERIAL SPECIFICATIONS

	ELASTOMERS				METALS		
Gasketing Types	Silicone*		Neoprene*		Aluminum	Monel	Ferrex
	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)	ZZ-R-765 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)	ZZ-R-765 Class 2B, Grade 40	AMS-3195	MIL-R-6855 Class II, Grade 40	MIL-R-6130 Type II, Grade A Condition Medium	—	QQ-N-281 AMS-4730	***
POLASHEET® POLASTRIP® (oriented wire in elastomer)	ZZ-R-765 Class 2B, Grade 40	AMS-3195	—	—	Alloy 5056 AMS-4182	QQ-NN-281 AMS-4730	—
PORCUPINE METALASTIC® (expanded monel in elastomer)	ZZ-R-765 Class 2B, Grade 50	—	—	—	—	QQ-N-281 (expanded)	—
METALASTIC® (woven aluminum in elastomer)	AMS-3302	—	AMS-3222	—	(woven) AMS-4182	—	—
SHIELDMESH® (compressed mesh)	—	—	—	—	Alloy 5056 AMS-4182	QQ-N-281 AMS-4730	***

* Temperature Ranges:
Silicone, solid, COMBO STRIP, POLASTRIP, and POLASHEET: ZZ-R-765, Class 2B, Grade 40. –70° to +500°F (–57° to 260°C).
In PORCUPINE gasketing (Grade 50), –65° to +500°F (–54° to +260°C).
In METALASTIC gasketing, AMS-3302B, –65° to +500°F (–54° to +260°C).
Silicone, sponge, AMS-3195, –80° to +400°F (–62° to +204°C).
Neoprene, solid, MIL-R-6855, Class II, Grade 40, –45° to +220°F (–43° to +104°C). AMS-3222, –40° to + 255°F (–40° to +107C°).
Neoprene, sponge, MIL-R-6130, Type II, Grade A, –30° to +150°F (–34° to +65°C), meets UL 94HF-1 rating.

** Grade may vary depending on part specifications. Contact Chomerics' Applications Engineering Department.

*** Ferrex is 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.

Metal gaskets that include an elastomer can be specified with fluorosilicone on a special order basis. Minimum quantities apply.

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