

MESH STRIP™ All Metal Gaskets

MESH STRIP All-Metal Gaskets

MESH STRIP gaskets are compressible, all-metal EMI/EMP strips knitted into rectangular or round cross sections. The knitted wire forms many spring-like interlocked loops, making it highly resilient. Standard MESH STRIP gaskets are knitted from either monel (a nickel-copper alloy) or Ferrex* (tin-plated, copper-clad steel) wire.

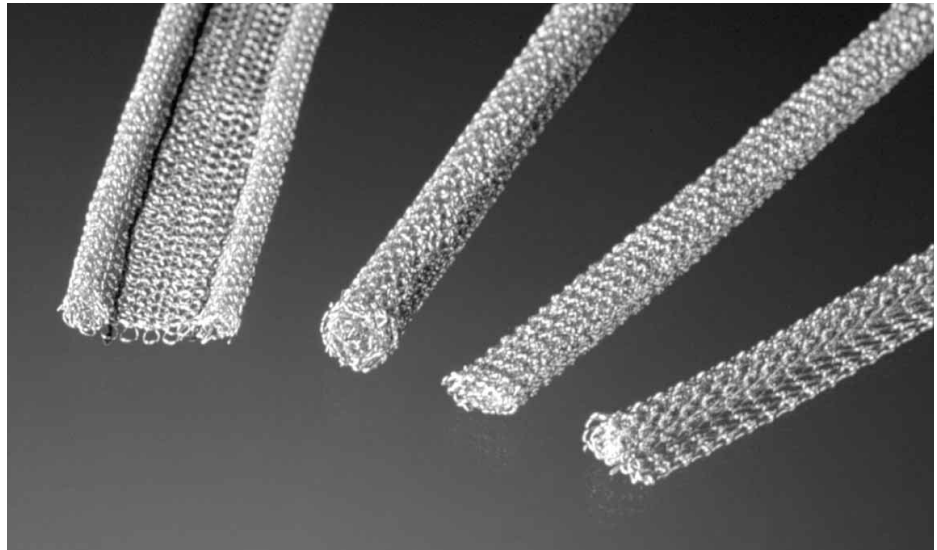
Chomerics also provides SPRINGMESH gaskets, special all-metal spring wire knitted mesh strips in a hollow tube shape with compression-deflection characteristics of 70-80%.

Other metals and alloys (such as aluminum mesh) are available. Monel is used most frequently due to its good aging properties, excellent tensile strength, and spring-like qualities. Ferrex offers the best EMI shielding performance, especially in H-fields, but has limited corrosion resistance.

All-metal MESH STRIP gasketing cannot provide a pressure or weather seal, and is not recommended for joined gaskets smaller than 2 in. (50.8 mm) x 2 in. (50.8 mm), or 3 in. (76.2 mm) in diameter.

Round cross-sectional gasketing is available with fins which simplify mounting by either riveting, spot-welding, or suitable structural adhesive bonding. The rectangular and round MESH STRIP gaskets can be held in grooves or slots by sidewall friction.

* Ferrex® is Chomerics' tin-plated, copper-clad steel wire per ASTM B-520. ASTM (QQ-W-343) tin-plate, 2-3% by weight; ASTM B-227 copper-cladding 30-40% by weight; SAE 1010 steel wire, balance by weight.



Ordering Procedure

MESH STRIP gasketing is supplied on spools in continuous lengths, or can be formed into ready-to-use, one-piece fabricated gaskets.

Standard MESH STRIP – Order by part numbers listed in Tables 2-5, and specify total length required.

Fabricated MESH STRIP Gaskets – Specify material by part number in Tables 2-5. Submit a drawing of the required gasket shape and dimensions. Tolerances for fabricated gaskets are as follows: <5.0 in. ±0.03 in. (<127 mm ±0.76 mm); 5.0–10.0 in. ±0.06 in. (127–254 mm ±1.52 mm); over 10.0 in. (over 254 mm) ±6%.

Custom MESH STRIP shapes are also available.

For additional design assistance, contact Chomerics' Applications Engineering Department.

Table 1 MESH STRIP Cross Section Tolerances

Rectangular Strips
0.062 to 0.188; +0.015, -0.000 (1.57 to 4.78; +0.38, -0.00)
Over 0.188 to 0.375; +0.032, -0.000 (4.78 to 9.53; +0.81, -0.00)
Over 0.375 to 0.500; +0.047, -0.000 (9.53 to 12.70; +1.19, -0.00)
Over 0.500 to 1.000; +0.062, -0.000 (12.70 to 25.40; +1.57, -0.00)
Round Strips
0.062 to 0.125; +0.015, -0.000 (1.57 to 3.18; +0.38, -0.00)
Over 0.125 to 0.188; +0.032, -0.000 (3.18 to 4.78; +0.81, -0.00)
Over 0.188 to 0.375; +0.047, -0.000 (4.78 to 9.53; +1.19, -0.00)
Over 0.375 to 0.750; +0.062, -0.000 (9.53 to 19.05; +0.157, -0.00)
Single or Double Round with Fin (Overall Width)
Under and including 1.00; ± 0.06 (under and including 25.40 ±1.52)
Over 1.00; ± 0.12 (over 25.40 ±3.04)

continued

Chomerics' "Quick-Cut" technology provides terminated custom lengths with non-fraying ends. Available for most cross sections shown on next page. Contact our Applications Engineering Department.

(mm dimensions in parentheses)

Note: Contact Chomerics for part numbers of these sizes in aluminum.

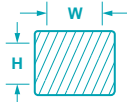


Table 2

RECTANGULAR CROSS SECTIONS			
Height	Width	Part Number	
		Monel	Ferrex
0.062 (1.57)	0.062 (1.57)	01-0101-0408	01-0104-0408
0.062 (1.57)	0.125 (3.18)	01-0101-0218	01-0104-0218
0.062 (1.57)	0.187 (4.75)	01-0101-0213	01-0104-0213
0.062 (1.57)	0.250 (6.35)	01-0101-0144	01-0104-0144
0.062 (1.57)	0.312 (7.92)	01-0101-0777	01-0104-0777
0.062 (1.57)	0.375 (9.53)	01-0101-0149	01-0104-0149
0.062 (1.57)	0.500 (12.70)	01-0101-0780	01-0104-0780
0.062 (1.57)	0.625 (15.88)	01-0101-0812	01-0104-0812
0.062 (1.57)	0.750 (19.05)	01-0101-0258	01-0104-0258
0.062 (1.57)	1.000 (25.40)	01-0101-1539	01-0104-1539
0.093 (2.36)	0.093 (2.36)	01-0101-0424	01-0104-0424
0.093 (2.36)	0.125 (3.18)	01-0101-0377	01-0104-0377
0.093 (2.36)	0.187 (4.75)	01-0101-0203	01-0104-0203
0.093 (2.36)	0.250 (6.35)	01-0101-0167	01-0104-0167
0.093 (2.36)	0.312 (7.92)	01-0101-0332	01-0104-0332
0.093 (2.36)	0.375 (9.53)	01-0101-0197	01-0104-0197
0.093 (2.36)	0.500 (12.70)	01-0101-0285	01-0104-0285
0.093 (2.36)	0.625 (15.88)	01-0101-0238	01-0104-0238
0.125 (3.18)	0.125 (3.18)	01-0101-0199	01-0104-0199
0.125 (3.18)	0.187 (4.75)	01-0101-0177	01-0104-0177
0.125 (3.18)	0.250 (6.35)	01-0101-0153	01-0104-0153
0.125 (3.18)	0.312 (7.92)	01-0101-0336	01-0104-0336
0.125 (3.18)	0.375 (9.53)	01-0101-0192	01-0104-0192
0.125 (3.18)	0.500 (12.70)	01-0101-0286	01-0104-0286
0.125 (3.18)	0.625 (15.88)	01-0101-1607	01-0104-1607
0.125 (3.18)	0.750 (19.05)	01-0101-0251	01-0104-0251
0.125 (3.18)	1.000 (25.40)	01-0101-1092	01-0104-1092
0.156 (3.96)	0.125 (3.18)	01-0101-0194	01-0104-0194
0.187 (4.75)	0.187 (4.75)	01-0101-0168	01-0104-0168
0.187 (4.75)	0.250 (6.35)	01-0101-0958	01-0104-0958
0.187 (4.75)	0.312 (7.92)	01-0101-0516	01-0104-0516
0.187 (4.75)	0.375 (9.53)	01-0101-0217	01-0104-0217
0.187 (4.75)	0.500 (12.70)	01-0101-1639	01-0104-1639
0.187 (4.75)	0.625 (15.88)	01-0101-1815	01-0104-1815
0.187 (4.75)	0.750 (19.05)	01-0101-0547	01-0104-0547
0.187 (4.75)	1.000 (25.40)	01-0101-1817	01-0104-1817
0.250 (6.35)	0.250 (6.35)	01-0101-0169	01-0104-0169
0.250 (6.35)	0.312 (7.92)	01-0101-0581	01-0104-0581
0.250 (6.35)	0.375 (9.53)	01-0101-0310	01-0104-0310
0.250 (6.35)	0.500 (12.70)	01-0101-1523	01-0104-1523
0.250 (6.35)	0.625 (15.88)	01-0101-0818	01-0104-0818
0.250 (6.35)	0.750 (19.05)	01-0101-1530	01-0104-1530
0.250 (6.35)	1.000 (25.40)	01-0101-1598	01-0104-1598
0.312 (7.92)	0.312 (7.92)	01-0101-0390	01-0104-0390
0.375 (9.53)	0.375 (9.53)	01-0101-0265	01-0104-0265
0.375 (9.53)	0.625 (15.88)	01-0101-1816	01-0104-1816



Table 3

ROUND CROSS SECTIONS		
Diameter*	Part Number	
	Monel	Ferrex
0.062 (1.57)	01-0101-0064	01-0104-0064
0.093 (2.36)	01-0101-0056	01-0104-0056
0.125 (3.18)	01-0101-0006	01-0104-0006
0.156 (3.96)	01-0101-0311	01-0104-0311
0.187 (4.75)	01-0101-0020	01-0104-0020
0.250 (6.35)	01-0101-0250	01-0104-0250
0.312 (7.92)	01-0101-0439	01-0104-0439
0.375 (9.53)	01-0101-0017	01-0104-0017
0.437 (11.10)	01-0101-0088	01-0104-0088
0.500 (12.70)	01-0101-0110	01-0104-0110

* For diameters larger than 0.375 (9.53), inquire about Chomerics' exclusive spring core construction.

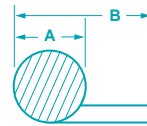


Table 4

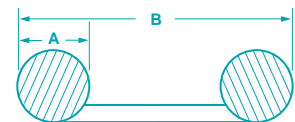
ROUND WITH FIN			
A Diameter*	B Overall Dimension	Part Number	
		Monel	Ferrex
0.062 (1.57)	0.375 (9.53)	01-0101-0983	01-0104-0983
0.062 (1.57)	0.500 (12.70)	01-0101-0756	01-0104-0756
0.062 (1.57)	0.625 (15.88)	01-0101-0091	01-0104-0091
0.062 (1.57)	0.750 (19.05)	01-0101-1160	01-0104-1160
0.093 (2.36)	0.375 (9.53)	01-0101-0826	01-0104-0826
0.093 (2.36)	0.500 (12.70)	01-0101-0977	01-0104-0977
0.093 (2.36)	0.750 (19.05)	01-0101-0998	01-0104-0998
0.125 (3.18)	0.375 (12.70)	01-0101-0008	01-0104-0008
0.125 (3.18)	0.437 (11.10)	01-0101-0076	01-0104-0076
0.125 (3.18)	0.500 (12.70)	01-0101-0060	01-0104-0060
0.125 (3.18)	0.562 (14.27)	01-0101-1161	01-0104-1161
0.125 (3.18)	0.625 (15.88)	01-0101-0061	01-0104-0061
0.125 (3.18)	0.750 (19.05)	01-0101-0079	01-0104-0079
0.156 (3.96)	0.500 (12.70)	01-0101-1162	01-0104-1162
0.156 (3.96)	0.750 (19.05)	01-0101-1163	01-0104-1163
0.187 (4.75)	0.437 (11.10)	01-0101-0075	01-0104-0075
0.187 (4.75)	0.500 (12.70)	01-0101-0092	01-0104-0092
0.187 (4.75)	0.625 (15.88)	01-0101-0058	01-0104-0058
0.187 (4.75)	0.750 (19.05)	01-0101-0051	01-0104-0051
0.187 (4.75)	0.875 (22.23)	01-0101-1164	01-0104-1164
0.250 (6.35)	0.500 (12.70)	01-0101-1331	01-0104-1331
0.250 (6.35)	0.625 (15.88)	01-0101-0109	01-0104-0109
0.250 (6.35)	0.750 (19.05)	01-0101-0106	01-0104-0106
0.250 (6.35)	0.875 (22.23)	01-0101-0534	01-0104-0534
0.250 (6.35)	1.000 (25.40)	01-0101-1330	01-0104-1330
0.312 (7.92)	0.625 (15.88)	01-0101-0530	01-0104-0530
0.312 (7.92)	0.750 (19.05)	01-0101-0362	01-0104-0362
0.312 (7.92)	0.875 (22.23)	01-0101-0592	01-0104-0592
0.375 (9.53)	0.625 (15.88)	01-0101-0568	01-0104-0568
0.375 (9.53)	0.750 (19.05)	01-0101-1191	01-0104-1191
0.375 (9.53)	0.875 (22.23)	01-0101-0009	01-0104-0009
0.375 (9.53)	1.000 (25.40)	01-0101-0270	01-0104-0270
0.437 (11.10)	0.750 (19.05)	01-0101-1192	01-0104-1192
0.437 (11.10)	0.875 (22.23)	01-0101-0098	01-0104-0098
0.437 (11.10)	1.000 (25.40)	01-0101-0274	01-0104-0274
0.500 (12.70)	0.750 (19.05)	01-0101-0789	01-0104-0789
0.500 (12.70)	0.875 (22.23)	01-0101-1193	01-0104-1193
0.500 (12.70)	1.000 (25.40)	01-0101-1040	01-0104-1040

* For diameters larger than 0.375 (9.53), inquire about Chomerics' exclusive spring core construction.

For tolerances, see page 1.

Table 5

DOUBLE ROUND WITH FIN			
A Diameter	B Overall Dimension	Part Number	
		Monel	Ferrex
0.062 (1.57)	0.375 (9.53)	01-0101-6164	01-0104-6164
0.062 (1.57)	0.500 (12.70)	01-0101-0922	01-0104-0922
0.062 (1.57)	0.625 (15.88)	01-0101-0041	01-0104-0041
0.062 (1.57)	0.750 (19.05)	01-0101-1261	01-0104-1261
0.062 (1.57)	0.875 (22.23)	01-0101-1262	01-0104-1262
0.093 (2.36)	0.500 (12.70)	01-0101-6165	01-0104-6165
0.125 (3.18)	0.500 (12.70)	01-0101-0449	01-0104-0449
0.125 (3.18)	0.625 (15.88)	01-0101-0012	01-0104-0012
0.125 (3.18)	0.750 (19.05)	01-0101-0085	01-0104-0085
0.125 (3.18)	0.875 (22.23)	01-0101-0515	01-0104-0515
0.125 (3.18)	1.000 (25.40)	01-0101-0625	01-0104-0625
0.187 (4.75)	0.625 (15.88)	01-0101-0019	01-0104-0019
0.187 (4.75)	0.750 (19.05)	01-0101-0049	01-0104-0049
0.187 (4.75)	0.875 (22.23)	01-0101-0735	01-0104-0735
0.187 (4.75)	1.000 (25.40)	01-0101-0344	01-0104-0344
0.250 (6.35)	0.750 (19.05)	01-0101-0949	01-0104-0949
0.250 (6.35)	0.875 (22.23)	01-0101-1276	01-0104-1276
0.250 (6.35)	1.000 (25.40)	01-0101-0452	01-0104-0452
0.375 (9.53)	1.000 (25.40)	01-0101-1277	01-0104-1277
0.375 (9.53)	1.250 (31.75)	01-0101-1278	01-0104-1278



(mm dimensions in parentheses)