

Metal EMI SHIELDMESH™

Compressed Mesh Gaskets

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SHIELDMESH compressed mesh EMI gaskets are jointless, with either round or rectangular cross sections. They are made by die-compressing knitted wire mesh into a wide range of shapes and resiliencies. Gaskets can be produced in common metals or other metals for special requirements. SHIELDMESH gaskets are designed for applications requiring small round or rectangular EMI seals such as waveguide choke flanges, or for shafts or small housings. Due to high compression set, they are not recommended where mating joints must be opened and closed. Parts are normally supplied as medium density, but this can be varied to suit applications. The gaskets are held in place by sidewall friction in tight slots or grooves, not less than 0.062 inch (1.57 mm) wide or 0.040 inch (1.01 mm) thick. Since they are compressed, the gaskets need no allowance for material flow or lateral deflection. Width and material permitting, bolt holes can be formed in the gasket wall. These gaskets will not provide moisture or pressure sealing. SHIELDMESH gaskets formed with certain alloys can be used at temperatures up to 800°F (427°C) with no change to their excellent resilience.

NOTE: For small cross section combination EMI/environmental or pressure seals, conductive elastomer O-rings are recommended.



Ordering Procedure

Rings: Specify wire material, I.D., O.D. and thickness on drawing supplied by customer.

Rectangular Gaskets: Specify outside and inside dimensions, wall width and thickness, as above.

Standard Washers: Some standard parts are available.

Custom Gaskets: For custom gasket design or material, consult Parker Chomerics Applications Engineering Department.

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Table 1 - Material Specifications

Materials	Aluminum	Monel
Specifications	Alloy 5056 AMS-4182	QQ-N-281 AMS-4370

Table 2 - Tolerances inches (mm)

Sizes	OD	ID
Up to 1.00 (Up to 25.4)	+0.015, -0.000 (+0.38, -0.0)	+0.000, -0.015 (+0.0, -0.38)
1.01 to 2.00 (25.7 to 50.8)	+0.020, -0.000 (+0.51, -0.0)	+0.000, -0.020 (+0.0, -0.51)
2.01 to 3.00 (51.1 to 76.2)	+0.025, -0.000 (+0.63, -0.0)	+0.000, -0.025 (+0.0, -0.63)
3.01 to 4.00 (76.5 to 101.6)	+0.030, -0.000 (+0.76, -0.0)	+0.000, -0.030 (+0.0, -0.76)
Over 4.00 (Over 101.6)	+0.040, -0.000 (+1.02, -0.0)	+0.000, -0.040 (+0.0, -1.02)

Thickness: Under 1.0 in. +0.015, -0.000 [25.40] (+0.38, -0.0).
 Measured under 4 oz. (113.5 gm) load, 3/4 in. (1.91 cm) anvils on a Federal Products Model 22P hand snap gauge or equivalent.