



SHIELDMESH Compressed Mesh Gaskets

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.

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

SHIELDMESH gaskets formed with certain alloys can be used at temperatures up to 800°F (427°C) with no change to their excellent resilience.

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 our Applications Engineering Department.

Table 1

TOLERANCES		
Sizes	O.D.	I.D.
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.

(mm dimensions in parentheses)