

Teckfelt™

Sintered Metal Fiber Gasket Material

Customer Value Proposition:

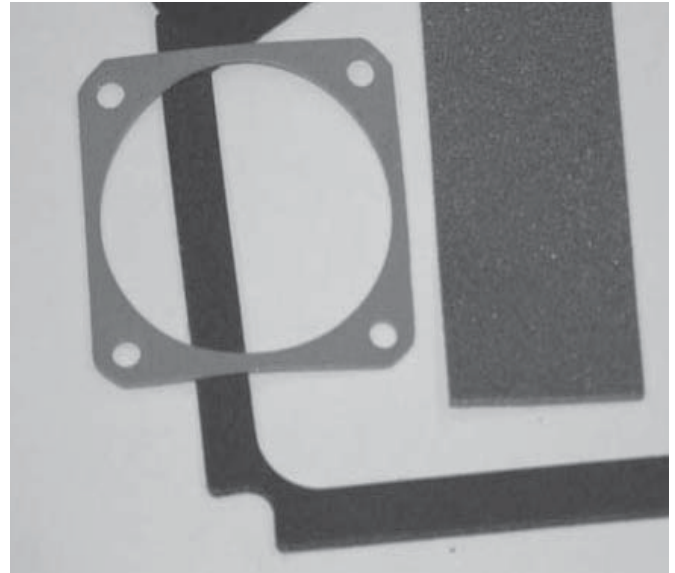
TECKFELT is a sintered metal fiber felt structure produced in sheet form. It can be filled with silicone elastomer for applications requiring an environmental or fluid seal. TECKFELT can also be supplied unfilled when EMI is the sole consideration.

Application Information:

The randomly arranged compacted metal fibers characteristic of TECKFELT provide a highly conductive path between mating surfaces. This makes TECKFELT an ideal material for EMI or EMP shielding, grounding, and static discharge applications, especially in corrosive environments.

Sealing Properties:

TECKFELT elastomer impregnated gaskets have been compared to other types of thin, dual-purpose gaskets and are proven to have the lowest air leak rate and best sealing properties of all thin EMI gasket materials.



Features and Benefits:

Metals:

- Corrosion resistant steel
- Fiber Diameter: 0.0004 to 0.004 in. (0.01 to 0.1 mm) mean diameter range.
- Density: 1.5 g/cm³ (unfilled)
- Filler (when specified): Commercial Grade Silicone Elastomer
- Temperature Range (with filler): -75°F to 392°F (-60°C to 200°C).

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Teckfelt™ - Product Information

EMI Shielding Performance

TECKFELT Shielding Effectiveness has been tested in accordance with Test Method TSETS-01 and based upon modified MIL-STD-285. Typical values are given in Table 1. (based on 127 mm x 127 mm aperture)

Table 1 - Shielding Effectiveness

Materials	H-FIELD 100 kHz	E-FIELD 10 MHz	PLANE WAVE	
			1 GHz	10 GHz
	dB	dB	dB	dB
Teckfelt	70	130	85	70

Custom Teckfelt Gaskets

TECKFELT gaskets can be manufactured in a wide range of shapes and sizes. When designing custom TECKFELT gaskets, it is important to maintain a minimum wall thickness of 0.090 in. [2.29 mm] between the outside edge of the gasket and the edge of any internal opening, such as at mounting holes, to avoid break out of thin gasket sections. For standard TECKFELT connector flange gaskets, see EMI Connector information.

Figure 1 - Holes vs Slots

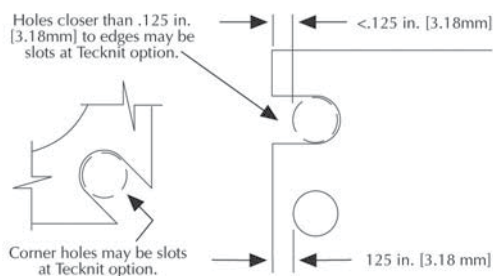


Table 2 - Teckfelt Sheets

Part Number	Material Type	Sheet Thickness* inches (mm)
45-09810	Unfilled	0.031 (0.79)
45-09812	Unfilled	0.063 (1.59)
45-09811	Filled	0.031 (0.79)
45-09813	Filled	0.063 (1.59)

*Sheet thickness tolerance ± 0.005 (0.13)

Tolerances

TECKFELT gaskets less than 10 inches can be cut to $\pm .015$ inches. For each additional 5 inches add an additional $\pm .015$ inches to tolerance.

Customer Teckfelt Sheets

Sheets thicker than standard sheet size can be manufactured by bonding two or more standard TECKFELT sheets using a silicone adhesive.

ORDERING PROCEDURE:

When ordering TECKFELT Gaskets, specify gasket dimensions and Part Number. For assistance, contact Parker Chomerics Application Engineering.

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