

ZEMREX WS shielding material is a composite of monel or aluminium wires embedded in solid or sponge silicone and oriented to a matrix of 100 per square centimetre

This combination provides excellent RF attenuation through wire point contact on both sides of the gasket and, in the case of solid silicone, environmental sealing to IP65 or IP66 depending on seal arrangement and compression

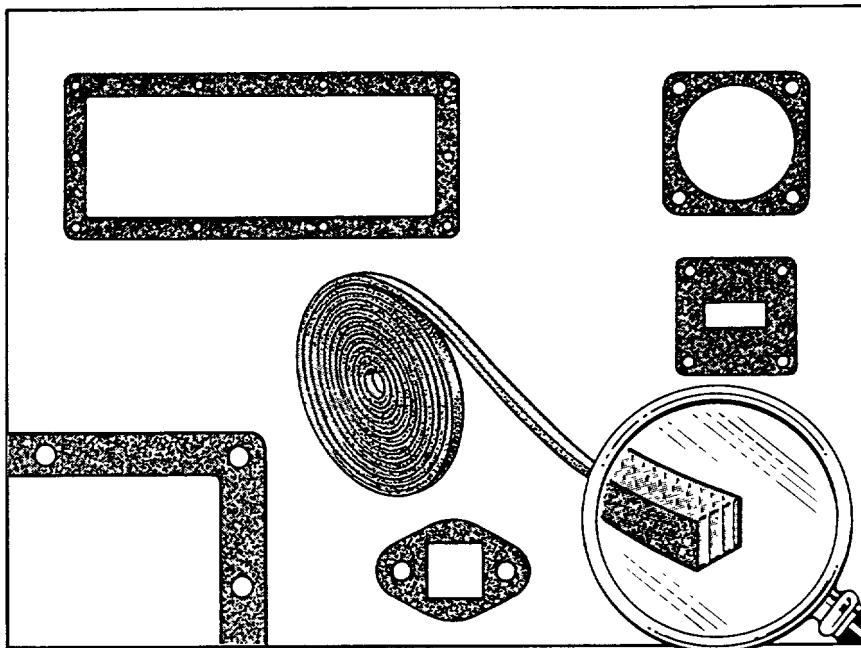
ZEMREX WS also provides good EMP survivability

CUSTOM SHAPES AND SIZES

ZEMREX WS can be supplied from stock in standard sheet sizes or die cut and slit to specification. Please contact our Technical Department or forward a drawing for quotation

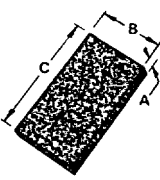
ADHESIVE COATING

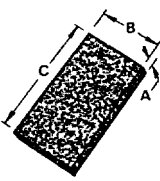
Pressure sensitive adhesive can be applied to sheets or custom parts as required. The conductive wires will easily penetrate the adhesive layer when mounted, under pressure

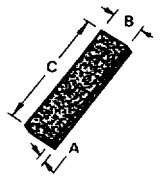


| SOLID SILICONE SPECIFICATION | |
|---------------------------------------------|--|
| WIRE - MONEL 0.11mm OR ALUMINIUM 0.12mm | |
| WIRE COUNT - 100 PER SQ CM | |
| ELASTOMER - SOLID SILICONE | |
| ELASTOMER HARDNESS - 30±5 SHORE MICRO | |
| ELONGATION - 200% | |
| COMPRESSION SET - 2% @ 3.5Kg/SQ CM | |
| RECOMMENDED COMPRESSION - 1.75 to 7kg/SQ CM | |
| TEMPERATURE RANGE - 55 to 200°C | |
| COLOUR - LIGHT GREY | |
| ADDITIONAL SPECIFICATION FOR SPONGE | |
| ELASTOMER - CLOSED CELL SILICONE SPONGE | |
| ELASTOMER HARDNESS - 20 ±5% SHORE MICRO | |
| COMPRESSION SET - 5% @ 3.5Kg/SQ CM | |
| COLOUR - DARK GREY | |

| WS SHIELDING EFFECTIVENESS dB | | |
|---------------------------------------------|-------|--------|
| FREQ. | FIELD | WS8463 |
| 10KHz | H | 55 |
| 100KHz | H | 83 |
| 1MHz | H | >102 |
| 100KHz | E | >121 |
| 1MHz | E | >141 |
| 10MHz | E | >120 |
| 100MHz | E | >140 |
| 400MHz | P | >102 |
| 1GHz | P | 95 |
| 10GHz | P | 60 |
| H = MAGNETIC E = ELECTRIC P = PLANE WAVE | | |

| SHEET STOCK | | | | |
|-------------------------------------------------------------------------------------|--------------------------------|--------|--------|-----------|
|  | SOLID SILICONE WITH MONEL WIRE | | | |
| | A (mm) | B (mm) | C (mm) | Part No |
| | 10 | 100 | 900 | WS9909-XX |
| | 15 | 100 | 900 | WS8463-XX |
| | 20 | 100 | 900 | WS8574-XX |
| | 25 | 100 | 900 | WS8685-XX |
| | 30 | 100 | 900 | WS8796-XX |

| SHEET STOCK | | | | |
|-------------------------------------------------------------------------------------|------------------------------------|--------|--------|-----------|
|  | SOLID SILICONE WITH ALUMINIUM WIRE | | | |
| | A (mm) | B (mm) | C (mm) | Part No |
| | 10 | 100 | 900 | WS9965-XX |
| | 15 | 100 | 900 | WS8753-XX |
| | 20 | 100 | 900 | WS8394-XX |
| | 25 | 100 | 900 | WS8539-XX |
| | 30 | 100 | 900 | WS8631-XX |

| SHEET STOCK | | | | |
|-------------------------------------------------------------------------------------|---------------------------------|--------|--------|-----------|
|  | SPONGE SILICONE WITH MONEL WIRE | | | |
| | A (mm) | B (mm) | C (mm) | Part No |
| | 15 | 50 | 900 | WS8807-XX |
| | 20 | 50 | 900 | WS8918-XX |
| | 25 | 50 | 900 | WS8864-XX |
| | 30 | 50 | 900 | WS7728-XX |

Sheet thickness tolerance +0.25 -0.15mm for 1mm thick
±0.25mm for 1.5mm and above

Ordering procedure

AC = Adhesive coat
NA = Non-adhesive

Example WS8807-NA

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