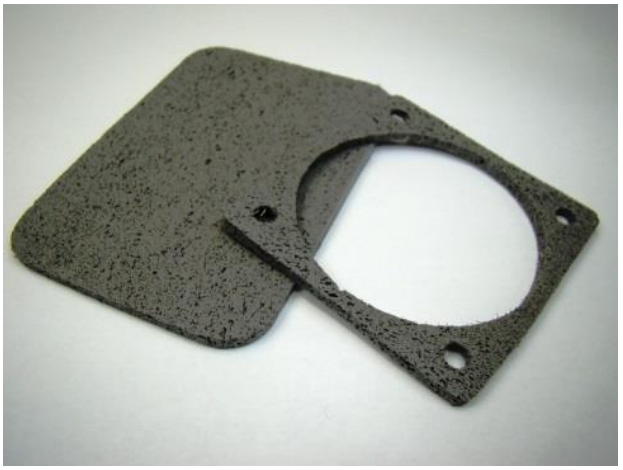
ORIENTED WIRES
OWS-SERIES Soft solid silicone

Oriented monel or aluminium metal wires in silicone are a good solution for achieving environmental sealing as well as EMC shielding in a single gasket.

Soft solid silicone rubber is suitable for applications with low closure forces and where greater compressibility is required. It meets the performance of oriented wires in silicone sponge but offers improved environmental sealing qualities.

A soft solid fluorosilicone version is available for use in environments where fuels, oils, hydraulic fluids and other contaminants are present.

- **Fluorosilicone version on request**
- **Wide variety of options (die-cut gaskets / sheet material up to 225mm wide by 1000mm long / strip material in continuous lengths)**
- **Excellent shielding performance due to a wire density up to 100 wires / cm²**



RoHS ✓ REACH ✓

PRODUCT SPECIFICATIONS

PROPERTY		VALUE / TOLERANCE	TEST METHOD
Basic rubber material		Soft solid silicone Soft solid fluorosilicone	-
Available metal wires		Monel Aluminium	BS 3075 NA13 – QQ-N-281-B BS EN 537 PT3 – Alloy 5056
Available sheet widths		2,4 – 225 mm	-
Available thicknesses		0,8 – 3,2mm	-
Maximum sheet length		1.000 mm	-
Wire density		100 wires/cm²	-
Temperature range	Soft solid silicone Soft solid fluorosilicone	-60 – 200 °C -55 – 200 °C	-
Recommended compression		15 – 25 %	-

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BUILDING AN ITEM NUMBER

OWS-LxWxT-XX-YYYY

Oriented Wires in Silicone	
xx	Length (mm)
xx	Width (mm)
xx	Thickness (mm)
MO	Monel wires
AL	Aluminium wires
SSS	Soft solid silicone
FSSS	Soft solid fluorosilicone

Standard options

EXAMPLE

OWS-100x100x0,8-MO-FSSS
Oriented wires in silicone; length: 100 mm; width: 100 mm; thickness: 0,8 mm; monel wires; soft solid fluorosilicone

REQUIRED CLOSING FORCE (N/cm²)

COMPRESSION	10 %	15 %	20 %	25 %
T = 1,6 mm	25	40	45	50
T = 2,4 mm	37	39	41	50
T = 3,2 mm	27	32	36	40

TOLERANCES

- Linear: ± 0,8 mm
- Hole Centers: ± 0,4 mm
- Thickness: ± 0,13 mm

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SHIELDING EFFECTIVENESS (dB)

	20MHz	60MHz	100MHz	400MHz	800MHz	1GHz	2GHz	4GHz	6GHz	10GHz
MO-SSS	94	99	109	105	109	107	112	95	89	84
MO-FSSS	94	99	109	105	109	107	112	95	89	84
AL-SSS	94	100	111	110	116	111	112	101	90	88
AL-FSSS	94	100	111	110	116	111	112	101	90	88