

Aluweave is a versatile, highly conductive gasket medium produced by filling a woven aluminium mesh with either silicone, flurosilicone or neoprene rubber. It is particularly useful where thicker gaskets are unsuitable but, because it is woven, it is unsuitable for ‘landwidths’ of less than 3mm for diecut gaskets. Surface irregularities should not exceed 0.05mm.

This material is available in two thicknesses – 0.4mm and 0.5mm ± 0.1mm – and is generally supplied as pre-cut gaskets constructed to the customers specific requirements but can also be supplied in sheets. Connector gaskets in the DC Series include Aluweave materials.

Applications:

Aluweave is used for connector gaskets and other ‘thin’ gasket applications. If aluminium is unsuitable because of galvanic compatibility or shielding effectiveness, the expanded Monel based GX Series may be more appropriate.

Aluweave gaskets provide good ‘point contact’ where each crossover occurs, while the rubber filler ensures excellent environmental sealing. Aluweave, like nearly all other conductive gasket materials, should not be fixed with a conductive or pressure sensitive adhesive and should be fixed as a friction fit utilising the fixing screws to position the gasket before tightening.

Specifications:

Aluminium mesh	AMS 4182A
Silicone Rubber	AMS 3220B
Flurosilicone	MIL-R-25988
Neoprene	AMS 3222C

How to Order:

Specify: Series-Filler Code-Thickness-Size or drawing number

Series	Filler Code	Thickness	Size
GA=Aluweave	SX=Silicone	0004=0.4 mm	xxxx-xxxx
	SF=Flurosilicone	0005=0.5 mm	
	NX=Neoprene		

Example:

GA-SX-0004-Drawing No. specifies a cut gasket fabricated from 0.4 mm thick Silicone Aluweave



Temperature range:

Silicone	- 55 to + 250°C
Neoprene	- 40 to +107°C

Performance:

Frequency	Field	Attenuation
10 KHz	H	45
100 KHz	H	55
1 MHz	H	70
1 MHz	E	>100
10 MHz	E	>100
100 MHz	E	>100
400 MHz	P	100
1 GHz	P	69
10 GHz	P	50

Monex is an expanded Monel foil filled with silicone rubber. The exposed foil surface provides excellent conductivity combined with good corrosion resistance. Monex is also a 'thin' gasket medium, similar to Aluweave, and is particularly suitable for connector or waveguide gaskets where a pressure seal and EMI shield is required.

The material cannot be effectively joined so gaskets should be cut in one piece wherever possible. Thicknesses of 0.5mm and 0.75mm are available and it can be supplied in sheet form.

To retain the strength of the foil, we recommend that a minimum land-width of 3mm should remain at any point around the edge of a Monex gasket. We also suggest that gaskets with intricate outlines are diecut at the factory.

Applications:

Like Aluweave, Monex is used for connector gaskets and other 'thin' gasket applications. Mating surfaces should ideally be within ± .05mm. Where hermetic sealing is not necessary, Monex – NF is available without the silicone filler.

Monex gaskets provide good 'point contact', while the rubber filler ensures excellent environmental sealing. Monex, like nearly all other conductive gasket materials, should not be fixed with a conductive or pressure sensitive adhesive and should be fixed as a friction fit utilising the fixing screws to position the gasket before tightening.

Specifications:

Monel Foil QQ-N-281B
 Silicone Rubber AMS 3220B

Temperature range:

Silicone - 55 to + 250°C

Performance:

Frequency	Field	Attenuation
10 KHz	H	52
100 KHz	H	68
1 MHz	H	88
1 MHz	E	>100
10 MHz	E	>100
100 MHz	E	>100
400 MHz	P	100
1 GHz	P	84
10 GHz	P	42

How to Order:

Specify: Series-Filler Code-Thickness-Size or drawing number

Series	Filler Code	Thickness	Size
GX=Monex	SX=Silicone	0005=0.5 mm	xxxx-xxxx
		0007=0.75 mm	

Example:

GX-SX-0005-Drawing No. specifies a cut gasket fabricated from 0.5 mm thick Monex