



8100 - Frame gasket (EMC)



Frame gasket 8100

The 8100 series Frame gaskets are ready-made gaskets according to customer specifications. They have reinforced corner pieces to guarantee optimum shielding performance and easy mounting characteristics.

The base material is [Amucor-shield 6800 series](#), [Standard shield 7000 series](#) or [Ultra soft shield 7400 series](#).

The gasket can be produced with or without self-adhesive. When the gasket has little contact surface we recommend providing the gasket with an electrically conductive self-adhesive.

Shielding performance

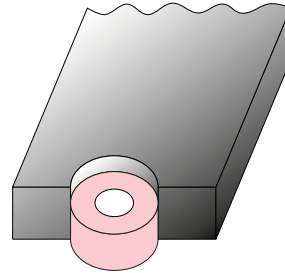
The product's shielding performance depends on the chosen outer material (i.e. the conductive material). The 8100 series Frame gasket can be made with Amucor (aluminum alloy) or conductive textile (very effective in combination with stainless steel, copper and chrome-plated constructions).

Frequency Hz	Mode	Amucor shield dB	Conductive fabric shielding dB
1M	E	121	115
10M	E	110	108
100M	E	103	102
400M	E	98	92
1G	P	92	90
10G	P	89	87

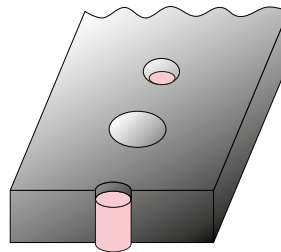
These values are measured under laboratory conditions. In other situations, results may differ; please read our [Guarantee](#).

Compression stops

Disc or washer-type compression stops can be included to prevent overcompression.



Washer type used at bolt holes



Disk type used beside bolt holes

Benefits

- Self-adhesive EMC gasket
- Good water resistance
- High shielding performance
- Low closure force
- EXTREMELY STRONG



8100 Frame gasket; conductive textile version with self-adhesive on the back



8101 Frame gasket; Amucor version with neoprene core. Holes according to customer's drawing and conductive self-adhesive

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Neoprene core specifications

Properties

Volume weight	140 / 180 kg / m3 /
Hardness shore 00	38-55 Sh 00
Resistance when compressed	25% 350-630 g / cm2
temperature °C	-40° + 100°
Water absorption	< 5%
Linear shrinkage (22hr 70°C)	< 5%
Max. deformation when compressed	25%, 22 hrs at 70°C 12%
Recommed max. compression	25%

Material

Elastomer Base	Neoprene
Colour	Black
Thickness	From 2mm to 40mm
Thickness tolerances	2/8mm +/-0,5mm; 10-15mm +/-1mm / 20-40mm +/-2mm

Specific character

Resistance to wear	Good
Resistance to cold	Good
Resistance to air and ozone	Good
Straining: white sealing wax / plast	Not
Resistance to mineral oils	Good
Resistance to vegetable oils	Good
Resistance to acids	Good
Resistance to caustic solution	Good
Resistance to alifates	Medium
Resistance to aromates	Not
Resistance to chlorine slutions	Good
Resistance to cetonic solutions	Not
Flame retardancy (1)	[UL94 HBF (not approved bij UL organisation)] FMVSS 302 cat. 1 - B
Flame retardancy (2)	Self extinguishing

Tape description

The tape will withstand long term exposure (up to 20,000 hours) at temperatures up to 130°C. The acrylic adhesive is UV resistant and is unaffected by exposure to sunlight or humidity.

NOTE: when laminated to conductive substrates such as metal foils and conductive fabrics/non-wovens the adhesive strength of the laminated product may vary slightly from that stated above due to different substrate rigidities.

Technical specifications

	En value	STM value	Test method
Adhesive	synrhetic resin	conductive through	thickness (Z-Axis)
Adhesive thickness	0.050 mm	2.0 mil	BS 3924
Adhesive strength	5.5 n/cm	49.5 om/ inch	BS 3924
Electrical resistance through adhesive*	0.01 ohms		
Temprature resistance	Up to 130°C (266°F)		
Colour	Translucent		
Interliner	Siliconised paper		
*Tested according to mil std 202f method 307 across surface area of 1 sq. inch. En 60454 Astm d-1000			

note: bonding surfaces should be clean & dry

The information on this sheet has been compiled from the results of various test data. This publication however, cannot be considered as a commitment or as a written guarantee. The information presented cannot replace the necessity of serious testing of the product in its actual application.

How to order

When you want to order the 8100 - Frame gasket series specify the following.

Series	Core material	Adhesive
8100	N	01
8100 : Frame gasket Amucor version 8101 : Frame gasket Conductive textile version	N : Neoprene P : Low closure force PVC foam E : EPDM F : Flame retardant UL94V-0 foam S : Silicone foam L : Polyurethane foam (ultra soft)	01 : Standard self-adhesive 02 : Without self-adhesive 03 : With conductive self-adhesive