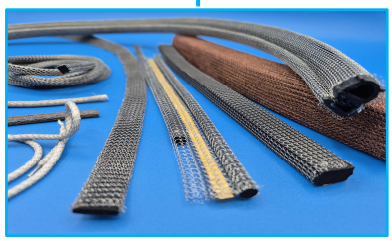
Gaskets EMISEAL



EMISEAL seals are seals for all applications of enclosures, enclosures, hatches, indoor… or a purely Cem seal is required. These joints are made by knitting 1 or more strands of metal knitting thread (monel, tinned steel, etc.) around an open cell elastomer (cell neoprene, silicone, etc.). They have good resilience and excellent shielding attenuation. Their design makes them resistant in time according to the choice of elastomer in relation to the environment. The Monel is very often used and gives good results in the HF, UHF and VHF frequency range. Tinned copper steel is very effective over the entire frequency range also mainly Recommended for systems with
magnetic fields. Aluminum with an alodine 1200 or a surtec 650 allows it to be used in aggressive environments such as salt fog. It must be fixed on an aluminum support instead in this case.

Technical characteristics

Features	Units	Values	Remarks
Material			
Yarn strand	/	Monel (MO), Tinned Copper (CU), Stainless Steel (AI) and/or Aluminum (AL).	Diameter monel wire: 0.11mm
Elastomere	/	Cellular neoprene (NC), cellular EPDM (EC), cellular silicone (SC) and/or tubular silicone (ST), low density urethane foam (MU).	Available in UL version for certain types of materials on request
Tape	/	Acrylic	On request
Standards sizes			
Thickness	mm	1,6 à 19,5	On request
Dimensions and width	mm	1,6 à 32	On request
Length	m	10 mini	Reel
General Properties			
Shielding efficiency	dB	See shielding attenuation chart.	MIL STD 285
Use temperature	°C	-50 à +200	According to types of elastomers us
Deflection (min/max)	%	10% à 30%	

The compression varies according to the form, we can nevertheless be based on these values.

General informations

Cut to length on request
Other profiles available on request - example:
Improved resilience
Sealed against dust and moisture

General tolerances

Values	Tolerances
1,5 à 5	+/- 0,3 mm
5,5 à 12	+/- 0,6 mm
> 12	+/- 0,9 mm

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Standard shapes and dimensions

Attenuation in dB +/- 5 (diameter mesh: 0.11 mm)	FREQUENCES								
	Champ H			Champ E		Onde plane			
	10 KHz	100 KHz	1 MHz	1 MHz	10 MHz	110 MHz	400 MHz	1 GHz	10 GHz
Tinned copper	38	62.5	79	125.5	109	110	99.5	63	58
Stainless steel	35	58.5	80.5	125.5	107	105.5	91.5	64	52
Monel	37	40	44.5	124.5	107	105.5	98	82	62
Aluminium	37.5	42.5	52	118	100.5	97	86	63.5	40.5

The attenuation varies according to the compression especially in H-field and in plane wave.
These values are given for a 6.4 mm diameter round joint with an elastomer which is cellular silicone surrounded by 2 layers of knitting according to MIL STD 285.

Product coding

B0603S **XXX** **XX** **X** **XX** **X**

- **B0603S** — Code de base: Gasket EMISEAL
- **XXX** — Profil/Type: D01, R07, P04…
- **XX** — Elastomere: see specifications; NC, EC, ST, SC, MU
- **X** — Number of layer: 1 or 2 (on request)
- **XX** — Toron: see specifications; MO, CU, AI, AL
- **X** — With adhesive: . A; Without adhesive: nothing

EMISEAL Gaskets, Single lip shape "P" type 02, Elastomer: cellular EPDM, 2 layers of Monel strand.

Standard shapes and dimensions

Round profiles "D"

Type	D (mm)
D01	1.6
D02	2.4
D03	3.2
D04	4.8
D05	6.4
D06	8
D07	9.5
D08	11.1

Type	D (mm)
D09	12.7
D10	15.9
D11	19.1

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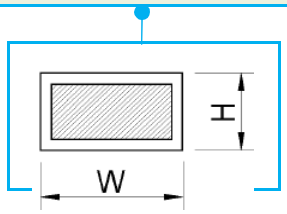
Standard shapes and dimensions (continued)

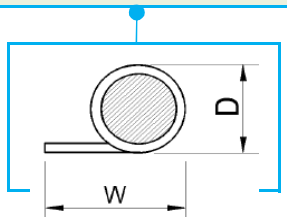
Rectangular profiles "R"



Type	H (mm)	W (mm)
R01	2.4	2.4
R02	2.4	4.8
R03	2.4	6.4
R04	3.2	3.2
R05	3.2	6.4
R06	3.2	8
R07	4.8	4.8

Type	H (mm)	W (mm)
R08	4.8	8
R09	4.8	12.7
R10	6.4	6.4
R11	6.4	12.7
R12	8	12.7
R13	9.5	12.7

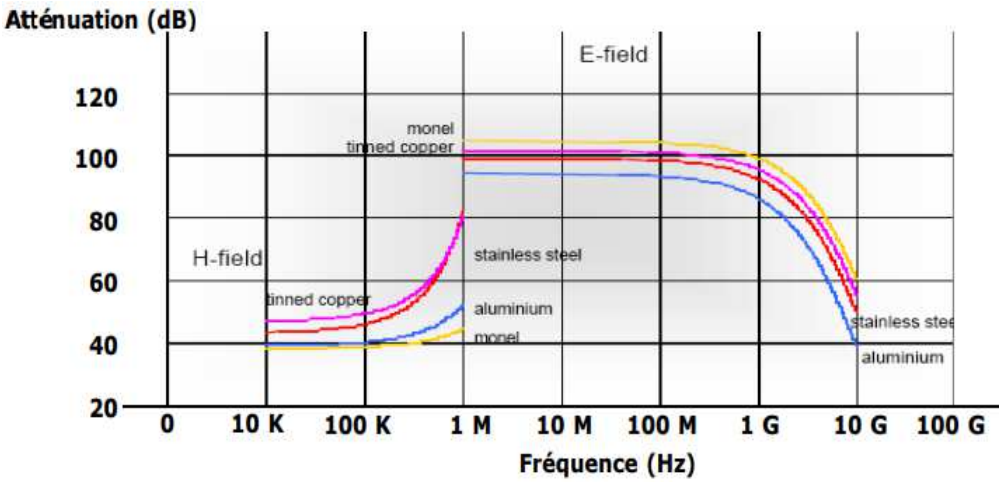
Single lip profiles "P"



Type	D (mm)	W (mm)
P01	3.2	9.5
P02	3.2	12.7
P03	3.2	15.9
P04	3.2	19.1
P05	4.8	12.7
P06	4.8	15.9
P07	4.8	19.1

Type	D (mm)	W (mm)
P08	4.8	22.2
P09	8	15.9
P10	8	19.1
P11	8	22.2
P12	8	25.4
P13	9.5	32

Comparative efficiency of Shielding



This graph compares the overall performance of our joints in fields E and H, manufactured with different materials: monel, stainless steel, tinned copper and aluminum. The test results presented here are made with cellular silicone type D05 and 2 layers of knitting according to MIL STD 285.

The results were obtained under laboratory conditions and should be considered only as an indication. As AB2E has no control over its customers' equipment and many other factors, it is the user's responsibility to carry out its own tests to ensure that the product corresponds to its needs.