

EMIMET gasket are highly electrically conductive metal mesh joints. They consist of strands of metal wires inserted into two sheaths of the same wire and shaped to obtain joints of different shapes. EMIMET lip seals formed by the last layer of knitting allows the attachment of the gasket directly to the support by welding, gluing or riveting; in the latter case the shielding performance is increased. 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 and is mainly recommended for systems in the presence of magnetic fields. Aluminum with an alodine 1200 or a surtec 650 allows to use it in aggressive environments and salt fog. It must be fixed on an aluminum support in this case.



+ Technical characteristics

Features	Units	Values	Remarks
Material			
Yarn strand	/	Monel (MO), Stainless Steel (AI), Tinned Copper (CU) and/or Aluminum (AL).	Monel wire diameter: 0.11mm.
Tape	/	Double sided acrylic.	for some profiles
Standards Sizes			
Thickness	mm	1,6 à 19,1	Other size on request
Width	mm	1,6 à 32	Other size on request
Length	m	mini 10	Reel
General properties			
Shielding efficiency	dB	See Shielding Materials Table.	Selon MIL STD 285
Density	g/cm ³	0,6 - 0,8	
Deflection (min/max)	%	10 à 15	
Use temperature	°C	Sans limite	Except with adhesif

The deflection/compression varies according to the form, we can nevertheless rely on these values above.

+ Shielding attenuation

Attenuation in dB +/- 5 (depending on mesh diameter used: 0.11mm)	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	62	62.5	61	125.5	110	114.5	99	85.5	99.5
stainless steel	36	42	48	119.5	104	103.5	97	84	101.5
Monel	48.5	50.5	54	124.5	110	105.5	101	86	82.5
Aluminium	45	50.5	51.5	125	111.5	105	98	81.5	65

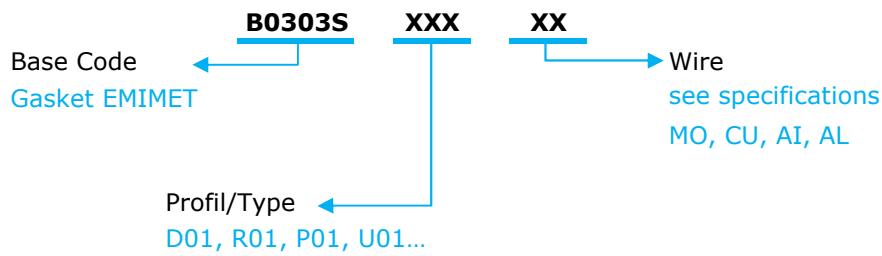
The attenuation varies according to the compression especially in H-field and in plane wave. These values are given for type D05 and tested according to MIL STD 285.



+ General tolerances (mm)

Values	Tolerances
1,5 à 5	+0,4 /- 0
5 à 10	+0,6 /- 0
>10	+0,8 /- 0

+ Product coding

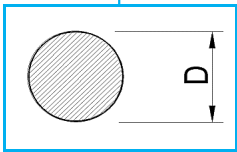


Exemple : **B0303SD02MO**

→ Gasket EMIMET, Profil rond "D" type 02, toron : Monel.

+ Standard shapes and dimensions (mm)

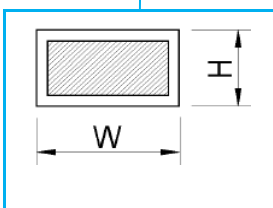
Round profiles "D"



Type	D
D01	1.60
D02	2.40
D03	3.20
D04	4.80
D05	6.40
D06	8.00

Type	D
D07	9.50
D08	11.10
D09	12.70
D10	15.90
D11	19.10

Rectangular profiles "R"

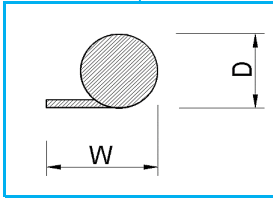


Type	H	W
R01	2.40	2.40
R02	2.40	4.80
R03	2.40	6.40
R04	3.20	3.20
R05	3.20	6.40
R06	3.20	8.00
R07	4.80	4.80

Type	H	W
R08	4.80	8.00
R09	4.80	12.70
R10	6.40	6.40
R11	6.40	12.70
R12	8.00	12.70
R13	9.50	12.70

Standard shapes and dimensions (mm)

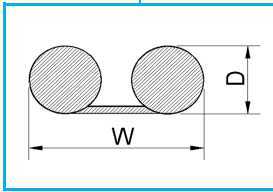
Single lip profiles "P"



Type	D	W
P01	3.20	9.50
P02	3.20	12.70
P03	3.20	15.90
P04	3.20	19.10
P05	4.80	12.70
P06	4.80	15.90
P07	4.80	19.10

Type	D	W
P08	4.80	22.20
P09	8.00	15.90
P10	8.00	19.10
P11	8.00	22.20
P12	8.00	25.40
P13	9.50	32.00

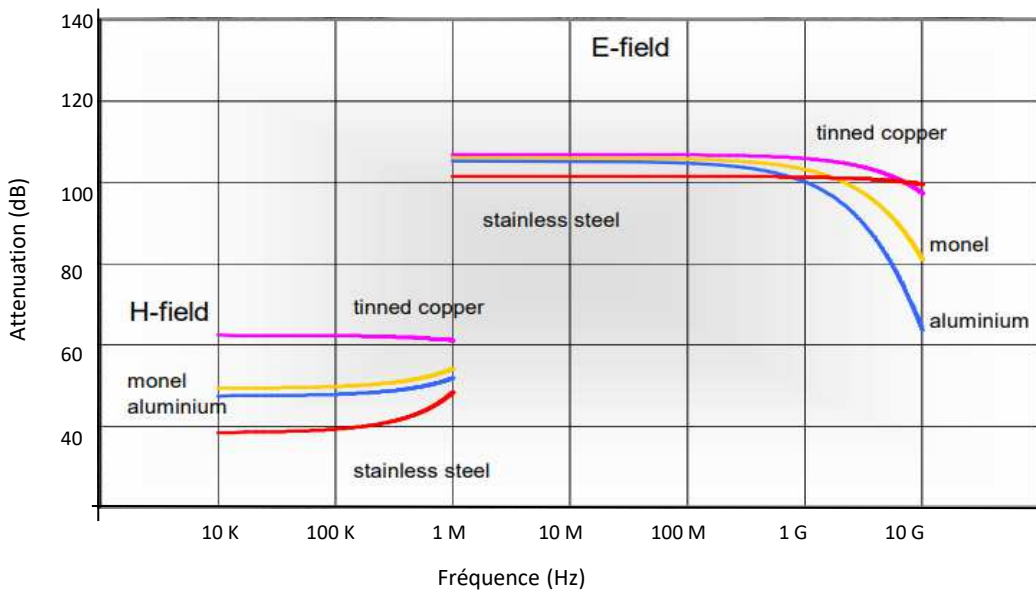
Double lip profiles "U"



Type	D	W
U01	3.20	9.50
U02	3.20	12.70
U03	3.20	15.90
U04	3.20	19.10
U05	4.80	15.90
U06	4.80	19.10
U07	4.80	22.20

Type	D	W
U08	4.80	25.40
U09	8.00	19.10
U10	8.00	22.20
U11	8.00	25.40
U12	8.00	32.00
U13	9.50	32.00

Comparative shielding efficiency



This graph compares the overall performance of our joints in fields E and H, manufactured with different materials (monel, stainless steel, tinned copper and aluminium).

Test performed with Reference D05 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.