

The EMI SIL COATING is a silicone-based gasket or silicone foam, covered with a layer of Silver/Copper with a thickness of 0.15 mm. The EMI SIL COATING therefore makes it possible to achieve tight and conductive gaskets. It has a high conductivity, a very high flexibility and the nature of its outer layer allows it a good galvanic compatibility and consequently to avoid corrosion. The gaskets thus made are reusable after disassembly because they do not contain metal particles likely to damage the surfaces in contact. In addition, the nature of its internal structure makes it an inexpensive gasket compared to standard silicone gasket loaded with Silver/ Copper.



Application Areas: Electronic Components - Electric Vehicles, 5G, Autopilot System, Mobile Phone, AIOT, HPC (High Performance Computing), Server, IC, CPU, MOS, LED, Motherboard, Power Supply, Heat Sink, LCD-TV, Laptop, PC, Telecommunication Device, Wireless Hub, DDR II Module, etc.

## Technical characteristics

Features	Units	Values			Remarks
<b>Description</b>		<b>52AGAE</b>	<b>52AAAE</b>	<b>51AAE</b>	<b>Test method</b>
Color	/	Beige			Visual
Hardness	Shore A	20-35	60	60	DIN 53505
<b>Composition of the interior material</b>					
Density	g/cm3	0.6 - 1.8	1.2 - 2.3	1.2 - 1.4	DIN 53479 A
Elongation	%	> 40			
Compression test	70Sh @ 100°C	< 40	< 35	< 35	
Maximum Temperature	°C	-55			
Minimal Temperature	°C	125			
<b>Composition of the outer material</b>					
Outer layer	mm	0,15 +0,05			
Density	g/cm3	3.6			DIN 53479
Elongation	%	125			
Maximum Temperature	°C	125			
Minimal Temperature	°C	-55			
Tearing strength	N/mm2	1.3			DIN 53504-S1
Volume Resistivity	ohm-cm	0.008			VDE 0303
<b>Shielding efficiency (dB)</b>					
Magnetic field 10KHz	dB	72	67	60	MIL
Electric Field 1MHz	dB	115	130	100	MIL
Plane wave 1GHz	dB	85	110	90	MIL
Compression test	70Sh @ 100°C	< 40	< 35	< 35	
Maximum Temperature	°C	-55			
Minimal Temperature	°C	125			

**Shielding efficiency on test**

52 AG AE		51 AA AE		51 AA AE	
Diam (mm)	Tol (+/-)	Diam (mm)	Tol (+/-)	Diam (mm)	Tol (+/-)
1.5	0.18	1.20	0.15	1.30	0.15
1.8	0.20	1.50	0.15	1.50	0.15
2.0	0.20	1.80	0.15	1.60	0.20
2.3	0.20	2.00	0.15	1.80	0.20
2.5	0.25	2.30	0.20	2.00	0.20
3.0	0.25	2.50	0.20	2.10	0.20
3.3	0.25	2.80	0.25	2.30	0.20
3.5	0.25	3.00	0.25	2.60	0.25
3.8	0.30	3.30	0.25	3.00	0.25
4.0	0.30	3.50	0.25	3.00	0.25
4.3	0.30	3.80	0.25	3.30	0.25
4.5	0.30	4.00	0.30	3.60	0.25
4.8	0.35	4.30	0.30	4.10	0.25
5.0	0.35	4.50	0.30	4.80	0.30
5.3	0.35	4.80	0.30	5.30	0.30
5.5	0.35	5.50	0.35	5.80	0.35
6.0	0.35	-	-	-	-

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.