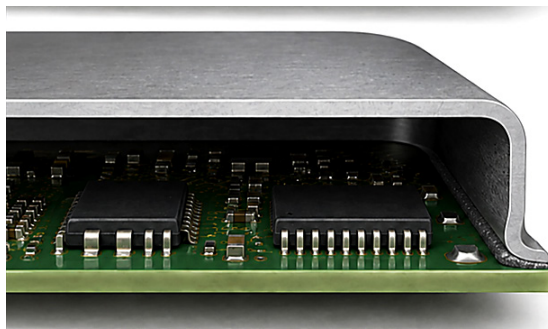


Trishield® RTV - EMC adhesive

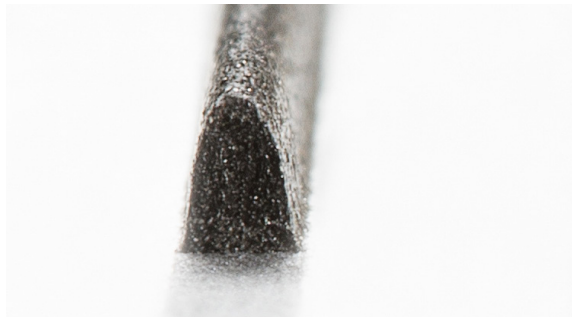
Trishield® RTV is a room-temperature-vulcanizing conductive adhesive designed for EMI shielding in applications using heat-sensitive materials, including plastics, zinc, magnesium and sensitive surface treatments. Unlike heat-cured systems, Trishield® RTV enables room-temperature curing and expands the design options for sensitive substrates.



Product data	Test procedure	Unit	Adhesive Ag-Cu01	Adhesive Ag-Al01	Adhesive Ni-C01
Base material	-	-	Silicone	Silicone	Silicone
Conductive filler	-	-	Ag/Cu	Ag/Al	Ni/C
Adhesion	Nolato FOU-04/7		>20N/cm	>20N/cm	>20N/cm
Density un-cured	ISO1215	g/cm³	3.2	1.8	2.1
Tensile strength	ISO 37	MPa	2.3	1.8	2.5
Volume resistivity	MIL-DTL-83528C	mOhm m	2	3	10
Shielding, avg. 0.3–20 GHz	Nolato cavity to cavity test method	dB	>100	>105	>130
Outgassing TML	ASTM595	%	0.31	0.40	0.43
Outgassing CVCM	ASTM595	%	0.08	0.12	0.12

Trishield® IP Sealing - Optimized height-to-width ratio

Trishield® IP Sealing is developed for electronic applications requiring reliable environmental sealing in space-constrained designs. Its triangular profile combines a high height-to-width ratio with low compression-force requirements, enabling efficient sealing in a compact design. Compared with traditional gasket geometries, it also reduces material consumption and supports the miniaturization of electronic designs.



Nolato EMC & Thermal Solutions

Nolato is a world leading developer and supplier of material and know-how for EMI shielding solutions made of electrically conductive silicon and Thermal Interference Materials. Our headquarters and Nolato Tech Center are located in Hallsberg, Sweden with additional manufacturing sites in Beijing and Suzhou in China, Penang in Malaysia, Maldon in UK, Querétaro in Mexico and New Jersey, USA. Nolato offers local production on a global scale with more than seventy EMC Production Partners around the world manufacturing the Trishield gasket.

Founded in 1970, Nolato EMC & Thermal Solutions became a part of the Nolato Group in 1988. Nolato's quality and environmental management systems have been certified with ISO 9001, ISO14001, IATF 16949 and MIL 83528.

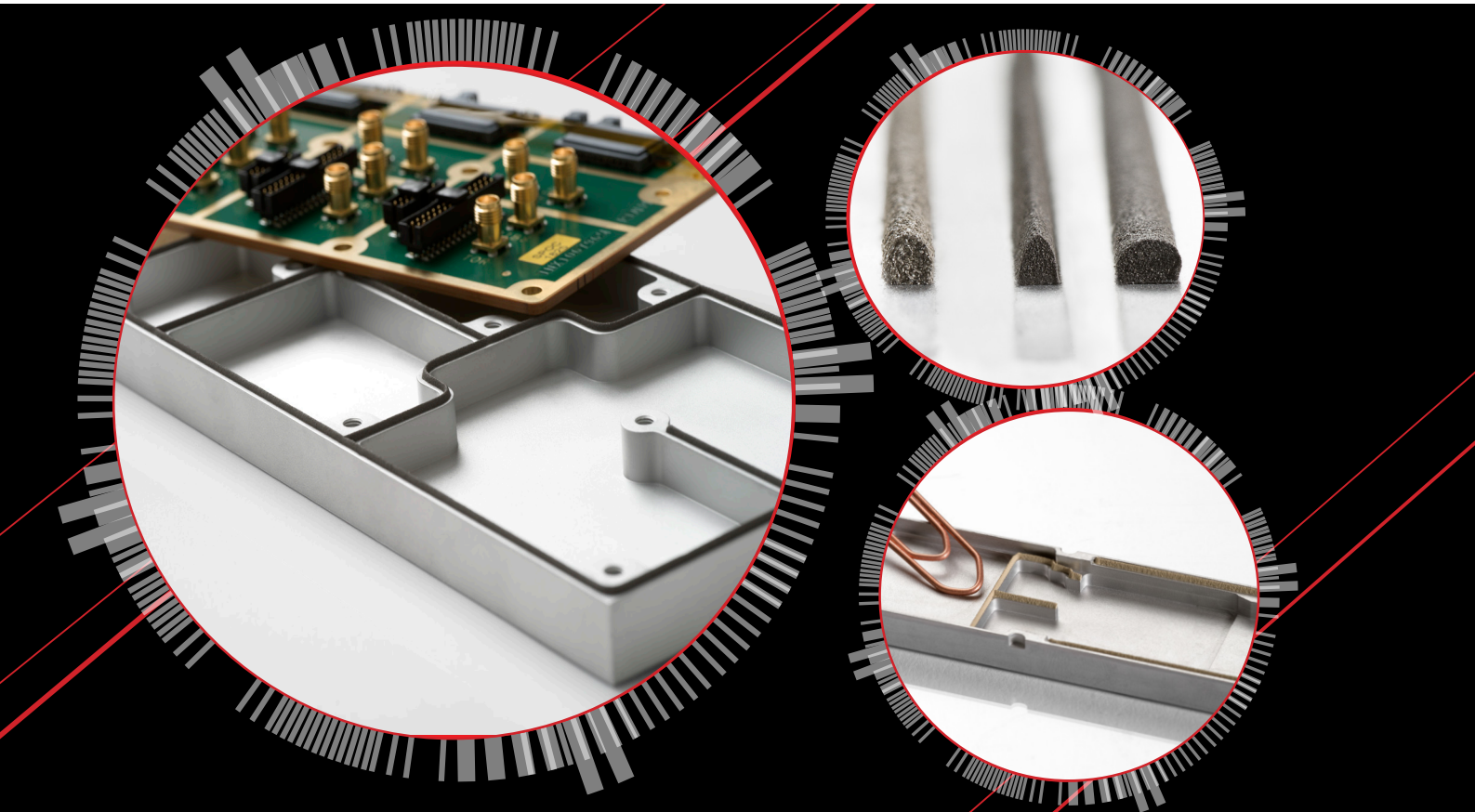


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TRISHIELD®
Sep 2026

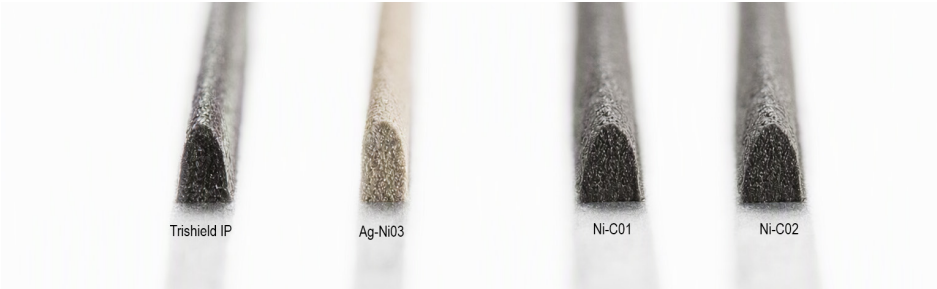
Experience and innovation



Trishield® 2.0 - Engineered for exceptionally low compression force requirements

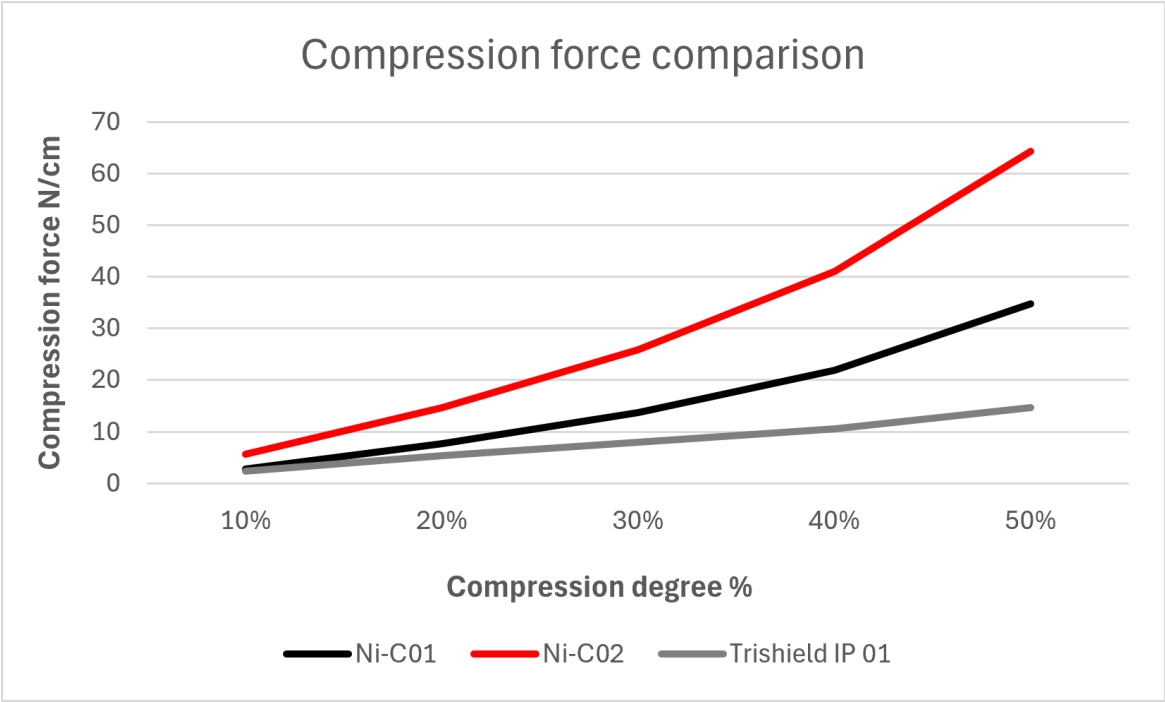
Trishield® is Nolato's dispensing technology for custom-made conductive silicone gaskets. For EMI shielding, conductive silicone is formed into a distinctive triangular profile that combines reliable shielding with low compression force and efficient material use. Gasket geometry and material properties can be tailored to each application, while automated dispensing supports high-volume production.

The technology also supports different application needs. Trishield® RTV is a room-temperature-curing conductive adhesive for EMI shielding on heat-sensitive substrates. Trishield® IP Sealing is designed for reliable environmental sealing in space-constrained electronic applications, with a high height-to-width ratio and low compression-force requirements.



Property	Test standard	Unit	Ni-C01	Ni-C02	Ag-NiO3	Trishield IP 01
Base material	-	-	Silicone	Silicone	Silicone	Silicone
Conductive filler	-	-	Ni/C	Ni/C	Ag/Ni	na
Volume resistivity	MIL-DTL-83528C	mOhmcm	25	5	14	na
Shielding, avg. 0.3–20 GHz	Nolato cavity to cavity test method	dB	110	130	107	na
Density	ISO 2781	g/cm³	1.6	1.8	2.6	1.3
Hardness (fully cured)	ISO 7619	Shore A	45	65	65	47
Tensile strength	ISO 37	MPa	1.2	0.9	2.9	4.8
Elongation at break	ISO 37	%	150	120	240	224
Tear strength	ISO 34-1C	N/mm	8	7	14	14
Compression set, 72h/100°C	ISO 915	%	29	60	35	31
Flammability	UL 94	-	V0	V0	V0	V0
Outgassing TML	ASTM595	%	1.28	na	0.14	na
Outgassing CVCm	ASTM595	%	0.38	na	0.03	na
IP Class	IEC60529:2013	-	IP 67	na	na	IP 68

Figure 1: Compression force (N/cm) at different gasket compression levels (%)



Trishield® - Features and benefits

- Up to 60% lower compression force
 - Less fasteners needed
 - Possible to increase tolerances on mechanics
 - Less machining needed on mechanics
 - Thinner and more flexible covers
- Double output
 - Possible to run with dual dispensing heads
- Excellent shielding properties
 - Up to 140 dB
- Lower material consumption
 - Cost saving
- Global access
 - Our production partners are located all over the world
- Optimal height/width ratio (narrow gaskets)
 - Space saving

Table 1: Gasket geometry and material savings - Trishield® 2.0 vs D-shape Ni-C01

Product	Material	Shape	Gasket Width	Gasket Height	Reduction material usage	Space saving	Comment
D-shape	Ni-C01		2.0 mm	1.6 mm	-	-	Trishield® 2.0/Ni-C01 savings versus D-Shape
Trishield®	Ni-C01		1.3 mm	1.6 mm	-42 %	-35 %	

Test is made inhouse Nolato. We will gladly calculate your savings in your specific project.

Trishield® Ag-NiO3 - Thin-wall dispensing

Trishield® Ag-NiO3 is an EMC gasket developed for optical modules and other compact devices with thin walls and limited space. Its ultra-narrow profile combines reliable EMI shielding with low compression-force requirements, low outgassing and a reduced curing temperature.

Low outgassing and a lower curing temperature make this material suitable for sensitive, space-constrained applications. The silver/nickel-filled silicone adheres well to metal and metallized surfaces and operates from –40 °C to +125 °C.

Figure 2: Compression force (N/cm) at different gasket compression levels (%)

