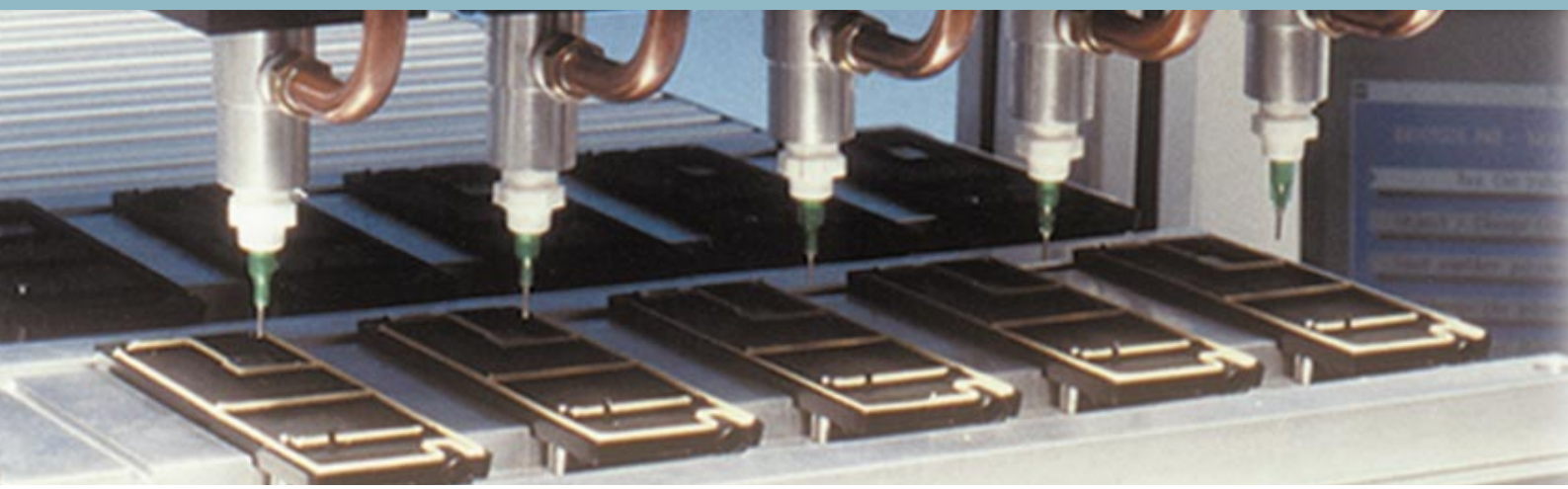
SERIES SNI55 NICKEL FILLED GALVANICALLY COMPATIBLE FORM-IN-PLACE GASKETING MATERIAL



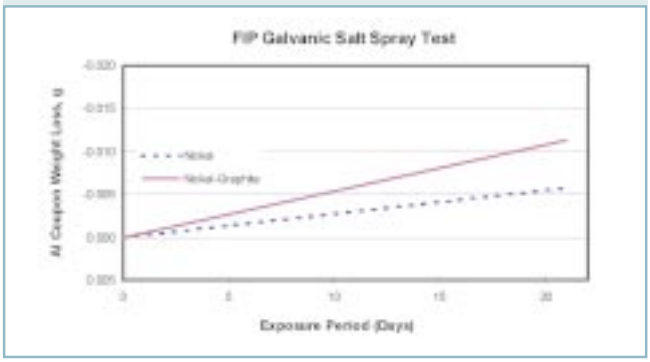
Laird Technologies introduces its corrosion resistant form-in-place gasket compound (SNI55). This compound provides a cost effective shielding solution that is ideal for applications where galvanic corrosion and good shielding effectiveness are required. This proprietary compound is a silicone elastomer filled with conductive nickel particles that give better corrosion performance than nickel-graphite filled material. This compound can be dispensed onto plastic or metal enclosures in the same way as our other form-in-place compounds.

Eigenschaften:

- Better corrosion performance than nickel-graphite elastomers
- Smooth, high quality surface for concise bead placement size and pattern
- Excellent Shielding Effectiveness - over 90dB across a wide frequency range - see chart on back page
- Low Compression Set (20% at room temperature)
- Bead size tested:
  0.075" (1.9 mm) wide x 0.050" (1.3 mm) high
- One-component, room temperature cure, no heating oven required
- Excellent adhesion on a wide variety of metal and plastic substrates including:
  - aluminum and other casting alloys
  - stainless steel
  - nickel copper plating (on plastics)
- copper, silver, and nickel filled paint (on plastics)
- No mixing or heat curing required

Testing Methodology:

To measure the galvanic compatibility of SNI55 compared to nickel graphite form-in-place gasketing compounds, galvanic testing was conducted according to MIS-47057 with modified elastomer sample geometry. The gasket samples were beads approximately 1.5 mm high and 2 mm wide. They were dispensed in a circular pattern, 30 mm in diameter. The gaskets were compressed between disks of 6061 - T6 aluminum with a MIL-C-5541, class 1a, surface chromate film. Assemblies of aluminum disks, gaskets, and insulating spacers were exposed to ASTM B117 salt fog. The weight loss of the aluminum coupons was used to measure the amount of aluminum corrosion caused by galvanic contact with the FIP materials. Five pairs of sample coupons for each material were removed after seven, fourteen and twenty-one days in salt fog. Weight loss vs. exposure time is shown in this figure. The steeper slope of the curve indicates greater weight loss and poorer galvanic performance.



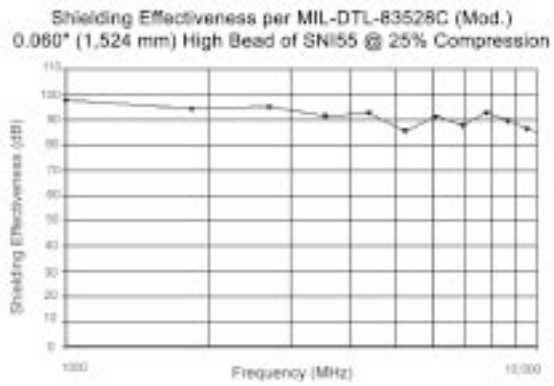
For more information please call

Germany	**+49 (0) 80 31/24 60 0**
UK	**+44 (0) 13 76/34 26 26**
France	**+33 (0) 1 69/49 79 79**
Czech Republic	**+420 4 88/57 51 11**
or visit	**www.lairdtech.com**

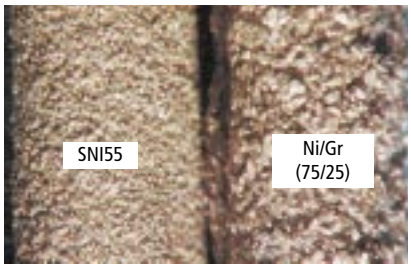
LET NOTHING INTERFERE™

NORTH AMERICA | EUROPE | ASIA

SERIES SNI55 NICKEL FILLED GALVANICALLY COMPATIBLE FORM-IN-PLACE GASKETING MATERIAL



Smooth bead surface provides for more accurate bead placement, size, and pattern filled void spaces around particles improve adhesion on all substrates.



This figure shows the surface texture of SNI55 compared to nickel-graphite (75/25) elastomer. The SNI55 bead shows a much smoother surface texture than the nickel-graphite bead.

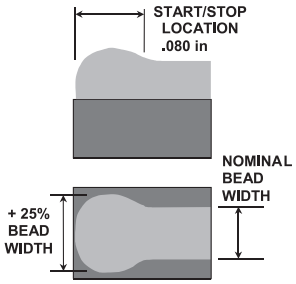
Material Specifications SNI55

Compound	Test Method	SNI55+
Filler		Nickel
Electrical Properties		
Volume Resistivity (ohms-cm) max	Mil-DTL-83528 para 4.5.10	0.015
Shielding Effectiveness 200 MHz to 10 GHz	Mil-DTL-83528 para 4.5.12	90dB
Physical Properties		
Specific Gravity(g/cm³)	ASTM D792	3.1
Hardness Shore A	ASTM D2240	55
Compression set (at room temperature)	ASTM D395 Method B	20%
Compression/Deflection*		
@20% lb/in (N/cm)		5.4 (9.4 N/cm)
@40% lb/in (N/cm)		18.5 (32.4 N/cm)
Adhesion on Aluminum, PSI (N/cm²)		150
Temperature Range		-50C to 85 C
Storage and Use		
Prior to Using	Allow product to stand 3-4 hours at room temperature	
Short Term Storage	Approximately five days when cartridge is in use	
Long Term Storage	3 month from date of manufacture when stored at -25C to 5C	
Packaging		
Cartridge Size 300 cc		1000 g ± 30
Cartridge Size 1000 cc		3.3 kg ± 0.1

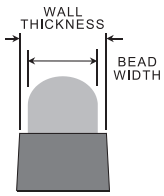
+ Typical Value

* Compression / Deflection bead size 0.060" wide x 0.050" high (1,50 mm wide x 1,30 mm high)

Starts and Stops



Bead Placement



As about our Form-In-Place Universal Component Positioning and Hold Fixture Kit

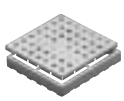
Part No. 8558-0100-0

How To Order

When ordering compounds, refer to the above chart for the cartridge size and use the following part numbers respectively:

SNI55-300
SNI55-1000

Notice: The data set forth in all text, tables, charts, graphs and figures herein are based on samples tested and are not guaranteed for all samples or applications. Such data are intended as guides and do not reflect product specification for any specific part. All units are shown in inches unless otherwise specified.


Board Level Shields


Fingerstock


Fabric-Over-Foam


Form-In-Place


Conductive Elastomers


Microwave Absorbers


Wire Mesh

Germany
Laird Technologies GmbH
Äußere Oberaustraße 22
83026 Rosenheim, Germany
Phone +49 (0) 80 31/24 60 0
Fax +49 (0) 80 31/24 60 50
europe@lairdtech.com

UK
Laird Technologies Ltd.
Warner Drive
Springwood Industrial Estate
Braintree, Essex CM7 2YW
Phone +44 (0) 13 76/34 26 26
Fax +44 (0) 13 76/34 64 42
europe@lairdtech.com

France
Laird Technologies SAS
13 –15 rue des Entrepreneurs
91560 Crosne, France
Phone +33 (0) 1 69/49 79 79
Fax +33 (0) 1 69/49 79 80
europe@lairdtech.com

Czech Republic
Laird Technologies s. r. o.
Průmyslová 497
46211 Liberec
Phone +420 4 88/57 51 11
Fax +420 4 88/57 53 03
europe@lairdtech.com

ISO 9001 CERTIFIED ORGANISATION
United Registrar of Systems Cert No. 2355C