SCHLEGEL
electronic materials

NICKEL-COPPER C70

Schlegel Electronic Materials (SEM) C70 EMI gaskets provide outstanding value and performance for demanding telecommunication, server, and mainframe applications. SEM C70 gaskets are designed with Nickel-Copper cladding. These metals, when plated to our polyester rip-stop fabric, are non-abrasive to plated and painted surfaces, and maintain galvanic compatibility with a wide range of surfaces.

100% RoHS Compliant

Schlegel Electronic Materials products are marketed around the world. As such we are committed to comply with the European Union Directive 2002/95/EC (RoHS). SEM products and materials have been tested by approved third party facilities and found to be in full compliance with the RoHS threshold limits for Level A and Level B substances.

The "New" Schlegel Electronic Materials

As the originator of the fabric-clad foam EMI shielding technology, Schlegel Electronic Materials is the industry's most trusted name. SEM continues to set the standard for quality and innovation, designing advanced solutions for a wide range of applications. And our worldwide locations ensure that you get what you need - when and where you need it. From concept to production, the SEM complete portfolio of shielding products combines highly conductive materials with flexible foams and coatings to provide the latest electronic materials containment solutions.

Schlegel Electronic Materials objective is to ensure that its customers have a competitive edge - by offering the highest quality and most cost-effective products conveyed with the highest level of customer service.

schlegel**emi**.com

electromagnetic interference shielding products

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Specifications - Nickel-Copper C70

NiCu C70 gaskets consist of a layer of copper topped by a layer of nickel, plated to a polyester rip-stop fabric and sealed with our exclusive acrylic-based C70 coating. This fabric is non-abrasive to plated and painted surfaces. It is also quite versatile, maintaining galvanic compatibility with a wide range of surfaces. This design allows SEM to meet the design requirements of value-conscious OEMs, with no compromise to performance.

Material Specifications:
Cladding: Nickel/Copper C70 (polyester rip-stop)
Surface Resistivity: ≤0.066 Ω/■ and CpK ≥2.0

Shielding Effectiveness:
Shielding performance of 1/4" x 3/8" gasket per MIL-G-83528B in frequencies of 20 MHz to 10 GHz: **96 dB** (average)
Note: Gasket geometry and application determine actual shielding effectiveness

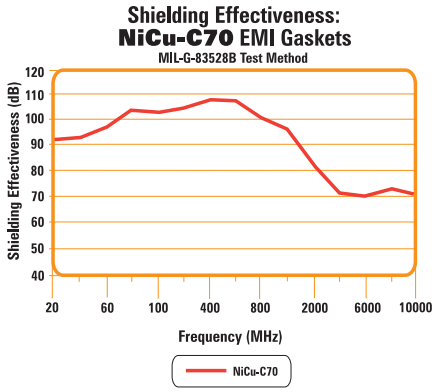
Contact Resistance (SEM LP-3001): 0.11 Ω-inch at 1 kg load/inch

Abrasion Resistance (ASTM D3884): No change in surface resistivity: 1,000 cycles

Foam Specifications
All C70 products are constructed with SEM's unsurpassed, industry leading polyurethane foam core technology. Within the C70 cladding you can select from the following options:

-Standard, highly resilient UL 94-HB recognized foam
-Bromine-free flame retardant UL 94-VO recognized foam

Compression Set:
The core of SEM shielding gaskets is open-celled polyether polyurethane foam in a high-resiliency (HB) formula. Compression set of foam that is encapsulated is 1% at ambient temperature, and <5% at 70˚C (158˚F) when compressed 50% for 22 hours.



Fabric-Over-Foam Gaskets

Schlegel Electronic Materials offers over 200 different profiles to meet all of your shielding needs. From standard rectangular to C-fold, D-shape, L-shape, P-shape, and others – SEM will design the ideal shielding gasket to meet your needs.

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