



Metal Rubber™ Electrodes
NSM-MR-02-E5 (pack of 5)
NSM-MR-02-E1 (1 sample)

Product Description

Metal Rubber™ is a unique self-assembled nanocomposite that combines the high electrical conductivity of metals with the low mechanical modulus of elastomers. Self-assembly processing allows the simultaneous modification of both conductivity and modulus during manufacturing. A range of mechanical properties is available upon special order. NSM-MR-02-E series is comprised of:

- Noncorrosive gold
- Low glass transition temperature (T_g) polymer matrix resin (-60 °C)



Applications for Electrodes

Metal Rubber has been demonstrated in a wide range of applications including, but not limited to: large mechanical deformation electrodes, mechanically flexible electrical interconnects, and lightweight, durable, conformal electromagnetic shielding.

Material Properties

Typical Values

- | | |
|---|-----------------|
| • Sheet resistance: | 1.0 to 10.0 Ω/□ |
| • Mechanical strain (percent elongation): | 225 to 250 % |

Standard Product Information

Product Number	Description	Dimensions	ASTM	Thickness	Delivery Time
NSM-MR-02-E5	Pack of 5 Rectangular Electrodes	1.5" x 0.5"	D 882	0.5 mm ± 0.2 mm	1-2 weeks
NSM-MR-02-E1	1 Rectangular Electrode Sample				

NSM-MR-02-E5 may have visual anomalies that do not affect material properties.
NSM-MR-02-E1 may be slightly imperfect in size and/or color, but the physical properties are the same.

Product Information

For additional product information, please contact a NanoSonic sales representative:
Phone: 540.626.6266
E-mail: sales@nanosonic.com