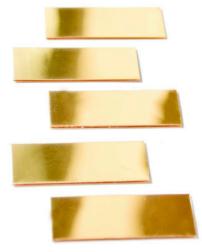


Metal Rubber<sup>™</sup> Electrodes NSM-MR-02-E5 (pack of 5) NSM-MR-02-E1 (1 sample)

#### **Product Description**

Metal Rubber<sup>™</sup> 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<sub>g</sub>) 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/□		
<ul> <li>Mechanical strain (percent elongation):</li> </ul>	225 to 250 %		

#### **Standard Product Information**

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

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

NanoSonic, Inc., 158 Wheatland Drive, Pembroke VA 24136, (phone) 540.626.6266, www.nanosonic.com No Warranties: Product is sold with no warranties, representation or guarantees expressed, implied or otherwise.

# PRODUCT INFORMATION www.nanosonic.com