## Manosonic, Tnc

Metal Rubber ${ }^{\text {™ }}$ Sheet NSM-MR-03-S1-06
NSM-MR-03-S1-12
NSM-MR-02-E1

## Product Description

Metal Rubber ${ }^{T M}$ 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 conductivity and modulus during manufacturing. A range of mechanical properties is available upon special order. NSM-MR-03-S1 is comprised of:

- Noncorrosive gold
- Low glass transition temperature



## Applications for Sheets

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

Material Properties

- Sheet resistance:
- Mechanical strain (percent elongation):


## Typical Values

1.0 to $10.0 \Omega / \square$

225 to 250 \%

## Standard Product Information

| Product Number | Product Description | Dimensions | Thickness |
| :---: | :---: | :---: | :---: |
| NSM-MR-03-SI-06 | Metal Rubber Sheet (I EA) | $6 " \times 6 "$ | $0.5 \mathrm{~mm} \pm 0.2 \mathrm{~mm}$ |
| NSM-MR-03-SI-I2 | Metal Rubber Sheet (I EA) | $12 " \times 12^{\prime \prime}$ | $0.5 \mathrm{~mm} \pm 0.2 \mathrm{~mm}$ |
| NSM-MR-02-E I | I Rectangular Electrode Sample | $1.5^{\prime \prime} \times 0.5^{\prime \prime}$ | $0.5 \mathrm{~mm} \pm 0.2 \mathrm{~mm}$ |

NSM-MR-03-S1-06 and NSM-MR-03-S1-12 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.
NSM-MR-02-E1 also meets ASTM, D 882 standards for testing purposes.

## Product Information

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

