

### Description

The co-extrude conductive elastomers are made of conductive elastomer part and non-conductive elastomer part, they are extruded with non-conductive elastomers to provide EMI shielding and corrosion protection from one gasket. Co-extrude conductive elastomers perform well not only in conductivity and shielding, but also in sealing and corrosion protection as conventional elastomers. Co-extrude gasket are also cost-effective, as they permit the use of exiting mechanical designs and provide for gasket attachment via a less expensive nonconductive elastomer.



### Typical Properties

Properties		11-231	Test Method
Electrical	Volume resistance	≤0.008Ω·cm	MIL-DTL-83528
Physical	Based material	Silicon rubber	-
	Filler	Ag/Al	-
Color	Silicone side	Red	-
	Conductive side	Yellow	-
Density	Silicone side	1.2±0.25 g/cm <sup>3</sup>	ASTM D2638
	Conductive side	1.9±0.25g/cm <sup>3</sup>	
Hardness (ShoreA) <sup>a</sup>	Silicone side	50	ASTM D2240
	Conductive side	65	
Tensile strength <sup>a</sup>	Silicone side	≥4MPa	ASTM D412
	Conductive side	≥1.38MPa	
Elongation at break <sup>a</sup>	Silicone side	≥400%	ASTM D412
	Conductive side	≥100%	
Tear strength <sup>a</sup>	Silicone side	≥16N/mm	ASTM D624
	Conductive side	≥8N/mm	
	Compression set <sup>b</sup>	≤30%	ASTM D395
	Flammability <sup>c</sup>	V0	UL94
Shielding Effect	Average shielding effect 0-8GHz	90 dB	Jones INS 04/2

**a: Tested on molded sheets**

**b: Tested on strip**

**c: Tested on 2mm sheet with Aluminum sheet both side**

### Storage

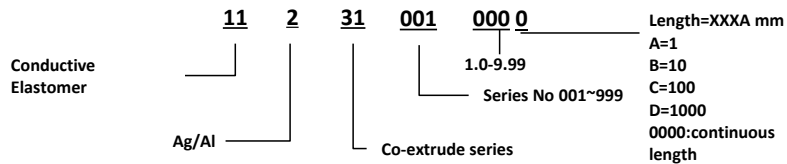
Sealed with drier and keep away from light

### RoHS/Reach information

Jones 11-231 fulfills the requirements set by the EU Directive 2011/65/EU (RoHS) and Reach

### Ordering information

Use this part number system when ordering JONES Conductive Elastomer.



### Benefits

- Low Cost
- Shielding Effective
- Low compression force
- Excellent mechanical properties
- Corrosion resistance

### Applications

- Telecom base stations
- Various casting

### Declaimers

- The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the issuing date of this TDS. When using our products, no matter what type of equipment they might be used for, be sure to make a written agreement on the specifications with us in advance. The design and specifications in this TDS are subject to change without prior notice.
- Do not use the products beyond the specifications described in this TDS. This TDS explains the typical performance of the products as individual component. Before use, check and evaluate their operations when installed in your products.
- Install the following systems for a failsafe design to ensure safety if these products are to be used in equipment where a defect in these products may cause the loss of human life or other significant damage, such as damage to vehicles (automobile, train, vessel), traffic lights, medical equipment, aerospace equipment, electric heating appliances, combustion/gas equipment, rotating equipment, and disaster/crime prevention equipment.
- The product provided in this TDS compliance with HSF.

