

## COMMERCIAL PURE PALLADIUM

(99.90% minimum palladium)

### ***NOMINAL COMPOSITION***

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Palladium 99.90% Min. (Several different grades available)

### ***PHYSICAL PROPERTIES***

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|  |                                   |
|--|-----------------------------------|
| Color  | White                             |
| Melting Point (Solidus)                        | 2826°F (1552°C)                   |
| Flow Point (Liquidus)                          | 2826°F (1552°C)                   |
| Brazing Temperature Range                      | 2826°F - 2926°F (1552°C - 1608°C) |
| Specific Gravity                               | 12.0                              |
| Density (Troy oz/in <sup>3</sup> )             | 6.33                              |
| Electrical Conductivity (%IACS) <sup>(1)</sup> | 16.0                              |
| Electrical Resistivity (Microhm-cm)            | 10.9                              |

<sup>(1)</sup> IACS = International Annealed Copper Standard

### ***PRODUCT USES & CHARACTERISTICS***

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Commercial pure palladium is widely used in numerous electrical, electronic, and industrial applications. Typically palladium is used in manufacturing of contact materials used in electrical switches and relays assemblies. Palladium shows favorable corrosion resistant properties in presence of hydrofluoric, phosphoric and acetic acids.

### ***PROPERTIES OF BRAZED JOINTS***

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The properties of a brazed joint are dependent upon numerous factors including base metal properties, joint design, metallurgical interaction between the base metal and the filler metal.

### ***AVAILABLE FORMS***

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Wire, strip, engineered preforms, specialty preforms per customer specification.

### ***SPECIFICATIONS***

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Commercial pure palladium conforms to the following specifications: N/A

### ***APPLICABLE PRODUCT CODE(S)***

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The applicable Lucas-Milhaupt product code(s) for this technical data sheet: 69-303.

### ***SAFETY INFORMATION***

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The operation and maintenance of brazing equipment or facility should conform to the provisions of American National Standard (ANSI) Z49.1, "Safety in Welding and Cutting". For more complete information refer to the Material Safety Data Sheet for Commercial Pure Palladium.

## ***WARRANTY CLAUSE***

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