

Palladium

Pd

General information

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|----------------------------|--|
| Applications | catalysts, plugging contacts, switching contacts, diffusion barrier for low-load contacts, conductive pastes, hydrogen diffusion cells |
| Product Forms | wire, sheet, strip |
| Density, g/cm ³ | 12.02 |
| Melting Point, °C | 1552 |

Forming Processes

| | |
|--------------------|--|
| Age Hardenable | No |
| Material Behaviour | ductile |
| Forming Process | formable, machinable, can be roll clad |

Chemical Properties

| | |
|---------|-------------------------------------|
| Comment | corrosion resistant, wear resistant |
|---------|-------------------------------------|

Physical properties

| | |
|--|-------|
| Conductivity, min., % IACS | 17.03 |
| Conductivity, max., % IACS | 17.37 |
| Thermal Conductivity at 20 °C, W/(m*K) | 75 |
| Young's Modulus, GPa | 121 |
| Modulus of Rigidity, GPa | 50 |

| | Annealed | Work Hardened | Property Range |
|-----------------------|----------|---------------|----------------|
| Hardness, HV | 40 | 210 | 40 - 210 |
| Tensile Strength, MPa | 180 | 480 | 180 - 480 |
| Yield Strength, MPa | 65 | 400 | 65 - 400 |
| Elongation, % | 35 | 3 | 3 - 35 |

Contact

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