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Nickel 200 Material Notes

| Component | Wt. % |
|-----------|----------|
| C | Max 0.15 |
| Cu | Max 0.25 |
| Fe | Max 0.4 |
| Mn | Max 0.35 |
| Ni | Min 99 |
| S | Max 0.01 |
| Si | Max 0.35 |

| Physical Properties | Metric | English | Comments |
|--|-----------------|-----------------------------------|--------------------------------|
| Density | 8.89 g/cc | 0.321 lb/in ³ | |
| Mechanical Properties | | | |
| Tensile Strength, Ultimate | 462 MPa | 67000 psi | Annealed |
| Tensile Strength, Ultimate at Elevated Temperature | 475 MPa | 68900 psi | Annealed prior to test; 300°C |
| Tensile Strength, Yield | 148 MPa | 21500 psi | Annealed |
| Tensile Strength, Yield at Elevated Temperature | 120 MPa | 17400 psi | Annealed prior to test; 300°C |
| Elongation at Break | 45 % | 45 % | Annealed prior to test. |
| Elongation at Break at Elevated Temperature | 48 % | 48 % | Annealed prior to test.; 300°C |
| Electrical Properties | | | |
| Electrical Resistivity | 9.6e-006 ohm-cm | 9.6e-006 ohm-cm | |
| Curie Temperature | 360 °C | 680 °F | |
| Thermal Properties | | | |
| CTE, linear 20°C | 13.3 µm/m-°C | 7.39 µin/in-°F | 20-100°C |
| Specific Heat Capacity | 0.456 J/g-°C | 0.109 BTU/lb-°F | |
| Thermal Conductivity | 70.2 W/m-K | 487 BTU-in/hr-ft ² -°F | |
| Melting Point | 1435 - 1446 °C | 2620 - 2630 °F | |
| Solidus | 1435 °C | 2620 °F | |
| Liquidus | 1446 °C | 2630 °F | |