

Technical Data Sheet

Gold Wire

Ultrasonic bonding Grade Beryllium modified



Mechanical Properties:

| | | | | | | | | | | |
|-----------------|------|------|------|------|-------|-------|-------|-------|-------|--------|
| Diameter (mils) | 0.7 | 0.8 | 0.9 | 1.0 | 1.3 | 1.5 | 1.7 | 1.8 | 2.0 | 3.0 |
| Tensile (g) | 3-10 | 4-13 | 5-16 | 6-20 | 10-45 | 13-50 | 15-60 | 20-70 | 25-85 | 50-180 |
| Elongation (%) | 2-6 | 2-7 | 2-8 | 2-8 | 2-10 | 2-12 | 2-12 | 2-12 | 2-15 | 2-20 |

Note: The above is the general specification, the actual will follow customer requirements. Other diameters available upon request.

Chemical Composition:

| Item | Amount | Item | Amount |
|-----------------------------|-----------------|----------------|----------|
| Gold (Au) | 99.99% Min. | Iron (Fe) | < 20 ppm |
| Berillium (Be) | 3 – 10 ppm | Magnesium (Mg) | < 20 ppm |
| Copper (Cu) | < 30 ppm | Silver (Ag) | < 30 ppm |
| Total impurity all elements | 100 ppm maximum | | |

Physical Properties:

| Property | Amount | Property | Amount |
|------------------------------|-------------------------|---|-----------|
| Density | 19.34 g/cm ³ | Thermal Conductivity @20°C | 315 W/m-K |
| Melting Point | 1063°C | Electrical Conductivity @20°C | 75 % IACS |
| Electrical Resistivity @20°C | 2.3 μ Ω cm | Fusing Current 10mm length X 25 μ (.001 In) | .52 Amps |

Shelf Life vacuum packed: 6 Months (Stored @ 73⁰ F ±3⁰F, 65% RH max.)

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