

# Gold Plated AISI 304 Stainless Steel Spooled Wire

**Formula:** Fe/Cr18/Ni10

**Product Shape:** Spooled

**Diameter:** 0.05mm

**Length:** 100m

**Temper:** Annealed

**Coating:** Gold Plated coated

**UOM Code:** 128-822-05

**SKU:** 1000036859-group

**Product Code:** FE22-WR-000111

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Hardness - Brinell	160-190
Elongation at break( % )	60
Modulus of elasticity( GPa )	190-210
Izod impact strength( J m <sup>2</sup> )	20-136
Tensile strength( MPa )	460-1100

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	70-72

### Thermal Properties

Element	Value
Melting point( C )	1400-1455
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	16.3@23°C
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	18@20-100°C

### Physical Properties

Element	Value
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Density( gcm<sup>3</sup> ) 7.93