

# Glass Sealing Alloy Straight Wire (Fe54/Ni29/Co17)

**Formula:** Fe54/Ni29/Co17

**Product Shape:** Straight Wire

**Diameter:** 0.3mm

**Length:** 1m

**Temper:** As Drawn

**UOM Code:** 996-037-04

**SKU:** 1000097087-group

**Product Code:** FE04-WR-000161

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Elongation at break( % )	30
Modulus of elasticity( GPa )	207
Tensile strength( MPa )	510-520

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	48.9
Temperature coefficient( $\text{K}^{-1}$ )	0.0037

### Magnetic Properties

Element	Value
Curie temperature( C )	435

### Thermal Properties

Element	Value
Melting point( C )	1450
Specific heat( $\text{J K}^{-1} \text{kg}^{-1}$ )	439@23°C
Thermal conductivity( $\text{W m}^{-1} \text{K}^{-1}$ )	17.3@23°C
Coefficient of thermal expansion( $\times 10^{-6} \text{K}^{-1}$ )	4.81 @20-200°C

## Physical Properties

Element	Value
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Density( gcm <sup>3</sup> )	8.36-8.5
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