

# Nickel/Chromium Alloy Tube (Ni80/Cr20)

**Formula:** Ni80/Cr20

**Outside Diameter:** 3mm

**Wall Thickness:** 0.25mm

**Inside Diameter:** 2.5mm

**Length:** 100mm

**UOM Code:** 027-232-39

**SKU:** 1000003264-group

**Product Code:** NI05-TB-000101

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Elongation at break( % )	40
Tensile strength( MPa )	650-1100

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	108
Temperature coefficient( $\text{K}^{-1}$ )	0.00005

### Thermal Properties

Element	Value
Maximum use temperature in air( C )	1150-1250
Melting point( C )	1400
Thermal conductivity( $\text{W m}^{-1} \text{K}^{-1}$ )	13.4@23°C
Coefficient of thermal expansion( $\times 10^{-6} \text{K}^{-1}$ )	14@20-100°C

### Physical Properties

Element	Value
Density( $\text{gcm}^{-3}$ )	8.4