

Cobalt/Chromium/Tungsten/Nickel/Iron/Manganese Alloy Rod (Co50/Cr20/W 15/Ni10/Fe 3/Mn 2)

Formula: Co50/Cr20/W 15/Ni10/Fe 3/Mn 2

Diameter: 9.8mm

Length: 50mm

UOM Code: 092-718-63

SKU: 1000013064-group

Product Code: CN01-RD-000120

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	58.5
Modulus of elasticity(GPa)	225
Tensile strength(MPa)	860

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	88.6
Temperature coefficient(K^{-1})	-

Thermal Properties

Element	Value
Melting point(C)	1330-1410
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	9.4@23°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	12.6@25-100°C

Physical Properties

Element	Value
Density(gcm^{-3})	9.13