

AISI 420 Stainless Steel Rod

Formula: Fe86.7/Cr13.0/C 0.3

Diameter: 9.5mm

Length: 500mm

UOM Code: 104-091-05

SKU: 1000017333-group

Product Code: FK11-RD-000120

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	>12
Modulus of elasticity(GPa)	200
Tensile strength(MPa)	860

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	55
Temperature coefficient(K^{-1})	-

Thermal Properties

Element	Value
Melting point(C)	1450
Specific heat($\text{J K}^{-1} \text{kg}^{-1}$)	460@23°C
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	24.9@100°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	10.3@0-100°C

Physical Properties

Element	Value
Density(gcm^{-3})	7.8