

Aluminum/Magnesium Alloy Spooled Wire (Al95/Mg 5)

Formula: Al95/Mg 5

Product Shape: Spooled

Diameter: 0.4mm

Length: 10m

Temper: Annealed

UOM Code: 662-972-46

SKU: 1000020255-group

Product Code: AL02-WR-000130

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	60-120
Elongation at break(%)	20
Shear strength(MPa)	150-230
Tensile strength(MPa)	300-450

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	5.6-6.1
Temperature coefficient(K^{-1})	0.002

Physical Properties

Element	Value
Density(gcm^{-3})	2.65

Thermal Properties

Element	Value
Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$)	125-130@23°C
Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$)	23-23.5@20-100°C