

AISI 316 Stainless Steel Powder

Formula: Fe/Cr18/Ni10/Mo 3

Maximum Particle Size: 45µm

Weight: 500g

UOM Code: 132-878-43

SKU: 1000039040-group

Product Code: FE24-PD-000120

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	160-190
Elongation at break(%)	60
Modulus of elasticity(GPa)	190-210
Izod impact strength(J m ²)	20-136
Tensile strength(MPa)	460-860

Electrical Properties

Element	Value
Electrical resistivity(µOhmcm)	70-78
Temperature coefficient(K ⁻¹)	-

Thermal Properties

Element	Value
Melting point(C)	1370-1400
Specific heat(J K ⁻¹ kg ⁻¹)	502@23°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	16.3@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	16-18@20-100°C

Physical Properties

Element	Value
Density(gcm ³)	7.96