

Grade 100 AISI 304 Stainless Steel Balls

Grade: Grade 100

Formula: Fe/Cr18/Ni10

Diameter: 0.5mm

Quantity: 100 Pcs

Type: Precision Sphere

Sphericity: 2.5 μ m

UOM Code: 125-787-99

SKU: 1000034821-group

Product Code: FE22-SP-000105

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)	460-1100

Electrical Properties

Element	Value
Electrical resistivity(μ Ohmcm)	70-72

Thermal Properties

Element	Value
Melting point(C)	1400-1455
Thermal conductivity(W m ⁻¹ K ⁻¹)	16.3@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	18@20-100°C

Physical Properties

Element	Value
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Density(gcm³) 7.93