

Hastelloy® C276 Disk

Formula: Ni57/Mo17/Cr16/Fe/W/Mn

Temper: Annealed

Thickness: 0.075mm

Diameter: 4mm

UOM Code: 003-053-45

SKU: 1000000412-group

Product Code: NI14-FL-000170

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	80-200
Elongation at break(%)	52
Modulus of elasticity(GPa)	170-220
Izod impact strength(J m ²)	42-100
Tensile strength(MPa)	550-900

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	125-130

Thermal Properties

Element	Value
Maximum use temperature in air(C)	1090
Melting point(C)	1270-1390
Specific heat(J K ⁻¹ kg ⁻¹)	427@23°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	10.1-12.5@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	10.8-11.3@20-100

Physical Properties

Element	Value
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Density(gcm³) 8.94