

Nickel/Chromium Alloy Thin Film Disk (Ni80/Cr20)

Formula: Ni80/Cr20

Thickness: 0.5 μ m

Diameter: 10mm

Area Density: 420 μ g/cm²

Support: Permanent Mylar® 3.5 μ m

UOM Code: 002-166-16

SKU: 1000000295-group

Product Code: NI05-MF-000100

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	40
Tensile strength(MPa)	650-1100

Electrical Properties

Element	Value
Electrical resistivity(μ Ohmcm)	108
Temperature coefficient(K ⁻¹)	0.00005

Thermal Properties

Element	Value
Maximum use temperature in air(C)	1150-1250
Melting point(C)	1400
Thermal conductivity(W m ⁻¹ K ⁻¹)	13.4@23°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	14@20-100°C

Physical Properties

Element	Value
Density(gcm ⁻³)	8.4