

Tungsten Carbide/Cobalt Sheet

Formula: WC 94/Co 6

Thickness: 1mm

Length 1: 100mm

Length 2: 100mm

UOM Code: 070-071-16

SKU: 1000009762-group

Product Code: W-60-SH-000100

Material Properties for Ceramics

Mechanical Properties

Element	Value
Poisson's ratio	0.21-0.22
Tensile modulus(GPa)	600
Hardness - Vickers(kgf mm ²)	1550
Tensile strength(MPa)	1440

Thermal Properties

Element	Value
Upper continuous use temperature(C)	600-630
Specific heat(J K ⁻¹ kg ⁻¹)	200-480@25°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	60-80@20°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	4.6-5@20-1000°C

Physical Properties

Element	Value
Density(gcm ³)	14.95

Pultrusions

Element	Value
Compressive strength(MPa)	5300-7000

Electrical Properties

Element	Value
Volume resistivity(Ohmcm)	$2 \times 10^{??} @ 25$