

Properties of Tungsten Carbide

Chemical Composition WC 90%, Co 6%

	Unit	Value
<u>Mechanical</u>		
Density	g/cm ³	14.95
Hardness	HV	>1600
Compressive Strength	Mpa	6400
Young's Modulus	Gpa	625
Fracture Toughness	MPa.m ^{1/2}	9.9
Transverse Rupture Strength	Mpa	2200
Porosity		0
<u>Thermal</u>		
Thermal Conductivity	W/Km	100
Therman Expansion	K ⁻¹	4.7x10 ⁻⁶

This data is representative based on composite data from several sources and is not meant to be absolute.