

## Tungsten Carbide Materials Data Sheet

Property	Units	Z6
<b>Description</b>		
Nominal Composition		WC (93%) Co (6%) TaC (1%)
Average Grain Size (F.S.S.S)	[ $\mu\text{m}$ ]	0.8
<b>Microstructure</b>		
Density	[ $\text{g}/\text{cm}^3$ ]	14.90—15.00
Apparent Porosity	[vol%]	2.59
<b>Colour</b>		Dark grey
<b>Mechanical Properties</b>		
Characteristics		Very high wear
Transverse Rupture Strength	[ $\text{N}/\text{mm}^2$ ]	3000
Vickers Hardness	[ $\text{kg}/\text{mm}^2$ ]	1640 ~ 1780
Magnetic Saturation	[emu]	100 ~ 115
Coercivity	[Oe]	270 ~ 315

**Note:** The above data represent typical values of Rojan Tungsten Carbide.