

Specification of Tungsten Carbide (TC)

Grade	WC (%)	Chemical Composition (%)				Physical Mechanical Capability		
		Ni (%)	TaC (%)	Co (%)	TiC (%)	Bending Strength (N/mm ²)	Density (g/cm ³)	Rockwell Hardness (HRA)
YG6X	93.50		<0.5	6		1400	14.6-15.0	91
YG6A	92		2	6		1400	14.6-15.0	91.5
YG6	94			6		1450	14.6-15.0	89.5
YG8N	91		1	8		1500	14.5-14.9	89.5
YG8	92			8		1500	14.5-14.9	89
YG8C	92			8		1750	14.5-14.9	88
YG11C	89			11		2100	14.0-14.4	86.5
YG15	85			15		2100	13.9-14.2	87
YWN6	94	6				1500	14.5-14.9	89
YWN8	92	8				1650	14.4-14.8	88
YT5	85			10	5	1370	12.5-13.2	89.5
YT14	78			8	14	1180	11.2-12.0	90.5
YT30	66			4	30	880	9.3-9.7	92.5

The Specification of B₄C

Index	Unit	Value
Density	g/cm ³	≥2.49
Mohs Hardness	H	9.36
Microscopic Hardness	kg/mm ²	5400-6300
Bending Strength	Mpa	400
Yang's Modulus E	Gpa	440
Melting Point	℃	2450
Boron Carbide Content	%	93-98
Boron Content	%	74-81
Carbon Content	%	16-24
Iron Content	%	≤0.20

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