

Common Tungsten Carbide Grades

Grade	Density (g/cc)	% WC	% Co	Other	Grain Size (um)	Bending Strength (N/mm2)	Hardness (HRA)
SM031	15.1 – 15.3	97	3	-	0.8 – 1.2	1450	93.6
SM06N	13.4 – 13.7	94	-	6Ni	1.2 – 2.4	1450	82
SM061	14.6 – 15.0	94	6	-	0.8 – 1.2	2000	91
SMT61	14.8 – 15.0	92	6	2TaC	< 1.0	1850	92.8
SM062	14.8 – 15.0	94	6	-	1.2 – 2.4	2100	92.4
SM064	14.8 – 15.1	94	6	-	> 1.6	2300	90
SM065	14.9 – 15.0	93.5	6	0.5TaC	1.6 – 2.5	2300	90.2
SM074	14.6 – 14.8	92.5	7.5	-	1.6 – 3.2	2400	89.2
SM08N	13.4 – 13.7	92	-	8Ni	1.2 – 2.4	1500	82
SM082	14.5 – 14.9	92	8	-	1.2 – 2.4	2300	90.5
SM084	14.5 – 14.8	92	8	-	> 1.6	2500	89
SM092	14.5 – 14.7	91	9	-	1.2 – 2.4	2350	88.5
SM093	14.5 – 14.7	91	9	-	> 2.4	2500	88.2
SM101	14.3 – 14.6	89.5	10	0.5TaC	0.8	2800	91
SM103	14.4 – 14.6	89.7	10.3	-	1.6 – 4.0	2600	87.5
SM112	14.3 – 14.5	89.2	10.8	-	1.2 – 1.6	2300	89.2
SM113	14.0 – 14.5	89	11	-	> 2.4	2700	86.5
SM152	14.0 – 14.2	85	15	-	1.2 – 2.4	2300	88
SM203	13.4 – 13.7	80	20	-	1.6 – 4.0	2500	82.5

Custom grades available on request