

Machining Technologies Tungsten Carbide Grade Chart
Standard Grades

MT Grade Symbol	Chemical composition - weight per cent							Grain Structure		Transverse Rupture Strength (Minimum) Kpsi	Density g/cm ³	Hardness HRA	
	WC	Co	TiC	Ta(Nb)C	Ni	Cr3C2	Other	Average Size μm	Ultra-fine <1 Submicron ≤ 1 Fine 1 - 3 Medium 3 - 5 Coarse ≥ 5				
MT-106	94	6						2	fine	350	14.95	91.7-92.4	<i>General Purpose</i>
MT-206	94	6						4	medium	350	14.95	90.5-91.5	
MT-210	90	10						4	medium	425	14.60	89.0-90.0	<i>Metal Forming, Wear and Impact</i>
MT-212	88	12						4	medium	425	14.30	87.5-88.5	
MT-215	85	15						4	medium	425	14.00	85.5-86.5	
MT-220	80	20						4	medium	425	13.50	84.0-85.0	
MT-309	90.5	9.5						6	coarse	450	14.50	87.0-88.0	<i>Heavy Shock, Rotary Drilling and Mining</i>
MT-310	90	10						6	coarse	450	14.50	87.0-88.0	
MT-006	94	6						1	sub-micron	350	14.85	92.7-93.7	<i>Submicron Grades</i>
MT-010	90	10						1	sub-micron	425	14.45	91.5-92.5	
MT-015	85	15						1	sub-micron	475	14.00	89.2-90.2	
MT-0010H	90	10						0.6	ultra-fine	440	14.40	92.0-93.0	<i>Ultra-fine, Burrs, Steel Band Saw Tips</i>
MT-106Ni	94				6			2	fine	310	14.90	91.0-91.8	<i>Corrosion Resistant</i>
MT-110Ni	90				10			2	fine	250	14.50	90-92	
MT-112Ni	88				12			4	medium	400	14.30	89.0-90.0	
MT-215Ti	55	7.5	30		7.5			4	medium	250	9.00	89.5-90.5	
MT-211	87.8	11	0.4	0.8				4	medium	425	14.30	89.2-90.2	<i>Machining - Steel</i>
MT-234	85	6	3	6				4	medium	325	13.90	91.2-92.2	
MT-235	85.9	6	3	5.1				4	medium	325	13.70	91.2-92.2	
MT-721	77.3	8	6.3	8.4				4	medium	385	12.75	91.0-92.0	
MT-724	71.2	10.5	6.2	12.1				4	medium	325	12.50	91.4-92.2	
MT-725	69	10.5	6	14.5				4	medium	325	12.70	91.4-92.2	
MT-600	84	1.5	3.2	2.7	7	1.6 Cr		1	fine	250	13.50	93.0-94.0	
MT-815					15	85		4	medium	100	7.10	87.5-89.5	<i>Resistance to Chemical Reactions</i>

Special grades to meet specific requirements are also available.