

**GENERALCARBIDE®**

SHAPING YOUR SUCCESS

GRADE SPECIFICATIONS

	CHEMICAL COMPOSITION WEIGHT PERCENT			HARDNESS (HRA)	DENSITY (g/cm³)	AVERAGE TRANSVERSE RUPTURE STRENGTH (psi)
	WC	Co	Other			
Tungsten Carbide Grades with Cobalt Binder						
Ultrafine						
GC-004F	95.5	4.5		94.0 - 95.5	14.73 - 15.01	435,000
GC-012F*	88	12		92.2 - 93.7	14.04 - 14.24	475,000
GC-015F*	85	15		90.1 - 92.1	13.84 - 14.05	560,000
Submicron						
GC-005	94.5	5.5		93.0 - 94.5	14.82 - 15.04	445,000
GC-010*	90	10		91.5 - 93.0	14.32 - 14.56	520,000
GC-010CR*	89	10	1	91.9 - 93.4	14.12 - 14.38	530,000
GC-015*	85	15		89.4 - 91.0	13.82 - 14.05	535,000
GC-015CR*	84	15	1	90.5 - 92.2	13.73 - 13.88	550,000
Fine						
GC-106	94	6		91.5 - 93.0	14.79 - 15.02	510,000
GC-109	91	9		90.8 - 92.3	14.49 - 14.70	525,000
GC-206	94	6		91.2 - 92.7	14.79 - 15.02	480,000
GC-209	91	9		90.5 - 92.0	14.49 - 14.70	515,000
GC-211*	89	11		89.8 - 91.3	14.29 - 14.49	530,000
Medium						
GC-310*	90	10		89.7 - 91.2	14.29 - 14.49	510,000
GC-313*	87	13		88.0 - 90.5	13.90 - 14.30	515,000
GC-315*	85	15		87.8 - 90.3	13.85 - 14.15	520,000
GC-320*	80	20		85.1 - 86.6	13.46 - 13.64	470,000
GC-325*	75	25		82.5 - 84.7	13.03 - 13.23	440,000
GC-330*	70	30		81.4 - 82.9	12.61 - 12.82	420,000
Extra Coarse						
GC-915*	85	15		86.0 - 87.5	13.90 - 14.12	440,000
Mixed						
GC-608M	92	8		89.5 - 91.0	14.60 - 14.83	490,000
GC-610M	90	10		89.3 - 90.8	14.41 - 14.62	500,000
GC-612M	88	12		88.0 - 89.5	14.21 - 14.42	510,000

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* AVAILABLE IN WIRE EDM GRADE

Sinter-HIP process guaranteed

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	WC	Co	TaC	Ni	Other				
Corrosion Resistant Specialty Grades									
GC-409CT*	88	9	2		1	Coarse	90.0 - 91.5	14.32 - 14.52	470,000
GC-010CR*	89	10			1	Submicron	91.9 - 93.4	14.12 - 14.38	530,000
GC-813CT*	86.5	10.5	2		1	Mixed	90.0 - 91.5	14.17 - 14.37	460,000
GC-411CT*	86	11	2		1	Coarse	89.1 - 90.6	14.11 - 14.32	490,000
GC-712C*	86	13			1	Coarse	87.8 - 89.3	13.92 - 14.14	480,000
GC-613CT*	83	13	3		1	Coarse	87.8 - 89.3	13.92 - 14.11	465,000
GC-015CR*	84	15			1	Submicron	90.5 - 92.2	13.73 - 13.88	550,000
GC-415CT*	81	16	2		1	Coarse	87.5 - 89.0	13.70 - 13.93	450,000
GC-618CT*	78	18	3		1	Coarse	86.5 - 88.0	13.46 - 13.65	450,000
GC-425CT*	70	25	4		1	Coarse	84.4 - 85.9	12.87 - 13.11	470,000
Tungsten Carbide/Cobalt Grades with Tantalum Carbide									
GC-0004*	89	7	4			Fine	91.7 - 93.2	14.65 - 14.87	465,000
GC-409CT*	88	9	2		1	Coarse	90.0 - 91.5	14.32 - 14.52	470,000
GC-813CT*	86.5	10.5	2		1	Mixed	90.0 - 91.5	14.17 - 14.37	460,000
GC-411CT*	86	11	2		1	Coarse	89.1 - 90.6	14.11 - 14.32	490,000
GC-313T*	85	13	2			Medium	88.5 - 91.0	13.95 - 14.25	490,000
GC-613CT*	83	13	3		1	Coarse	87.8 - 89.3	13.92 - 14.11	465,000
GC-315T*	83	15	2			Medium	88.0 - 90.5	13.85 - 14.15	495,000
GC-415CT*	81	16	2		1	Coarse	87.5 - 89.0	13.70 - 13.93	450,000
GC-618CT*	78	18	3		1	Coarse	86.5 - 88.0	13.46 - 13.65	450,000
GC-320T*	77	20	3			Medium	85.0 - 86.8	13.44 - 13.62	450,000
GC-325T*	72	25	3			Medium	83.0 - 84.9	13.01 - 13.21	430,000
GC-425CT*	70	25	4		1	Coarse	84.4 - 85.9	12.87 - 13.11	470,000
Tungsten Carbide Grades with Nickel Binder									
GC-N061	94			6		Fine	90.6 - 92.1	14.64 - 14.86	400,000
GC-N101	90			10		Fine	89.0 - 91.0	14.39 - 14.59	425,000
GC-N121	88			12		Fine	87.5 - 89.5	14.25 - 14.45	410,000

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