GENERALCARBIDE®

GRADE SPECIFICATIONS

	CHEMICAL COMPOSITION WEIGHT PERCENT			HARDNESS (HRA)	DENSITY (g/cm^3)	AVERAGE TRANSVERSE RUPTURE STRENGTH (psi)
	WC	Co	Other			
Tungsten Carbide Grades with Cobalt Binder						
Ultrafine						
GC-012F	87.5	12	0.5	92.2 - 93.7	14.04 - 14.24	520,000
GC-015F	85	14.5	0.5	90.1 - 92.1	13.84 - 14.05	540,000
Submicron						
GC-005	94.5	5.5		93.0 - 94.5	14.82 - 15.04	550,000
GC-010*	90	10		91.5 - 93.0	14.32 - 14.56	560,000
GC-015*	85	15		89.4 - 91.0	13.82 - 14.05	600,000
Fine						
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-306	93	7		91.0 - 92.8	14.60 - 14.88	480,000
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 - 86.8	13.42 - 13.60	510,000
GC-325	75	25		83.0 - 85.2	13.03 - 13.23	490,000
GC-330	70	30		81.4 - 82.9	12.61 - 12.82	467,000

* AVAILABLE IN WIRE EDM GRADE

Sinter-HIP process guaranteed

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	CHEMICAL COMPOSITION WEIGHT PERCENT					NOMINAL GRAIN SIZE (microns)	HARDNESS (HRA)	DENSITY (g/cm^3)	AVERAGE TRANSVERSE RUPTURE STRENGTH (psi)
	WC	Co	TaC	Ni	Other				
Specialty Grades									
GC-010CR	89	10			1	Submicron	91.9 - 93.4	14.12 - 14.38	540,000
GC-015CR	84	15			1	Submicron	90.5 - 92.2	13.73 - 13.88	610,000
GC-018CR	81	18			1	Submicron	89.3 - 90.8	13.46 - 13.61	580,000
GC-0004	89	7	4			Fine	91.7 - 93.2	14.65 - 14.87	465,000
GC-309C	90.5	9.0			0.5	Medium	90.4 - 92.0	14.38 - 14.60	500,000
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	Medium	89.1 - 90.6	14.11 - 14.32	470,000
GC-415CT*	82	15	2		1	Medium	87.5 - 89.0	13.70 - 13.93	510,000
GC-420CT*	75	21	3		1	Medium	85.5 - 87.0	13.15 - 13.39	510,000
GC-425CT*	70	25	4		1	Medium	84.4 - 85.9	12.87 - 13.11	460,000
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-618CT*	78	18	3		1	Coarse	86.5 - 88.0	13.46 - 13.65	450,000
Tungsten Carbide Grades with Nickel Binder									
GC-N061	92.5			7.5		Fine	90.6 - 92.1	14.64 - 14.86	440,000
GC-N101	90			10		Fine	89.0 - 91.0	14.39 - 14.59	480,000
GC-N121	88.5			11.5		Fine	87.5 - 89.5	14.25 - 14.45	510,000

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REDEFINING POSSIBLE™

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