

CARBIDE GRADE PORTFOLIO FOR WEAR PART INDUSTRY



Grade	GC200MC	GC150EC	GC150MC	GC110MC	GC070MC	GC080SNI	GC060F	GC100S	GC070S
Classification	G40	G30	G30	G20	G10		K15-K20	K20-K40	K10
Co %	20.0	15.0	15.0	11.0	7.0	8.5 Ni	6.0	10.0	7.0
WC incl. Doping %	80.0	85.0	85.0	89.0	94.0	92.0	94.0	90.0	93.0
Hardness HV30 (± 50) kg/mm ²	1020	1050	1170	1310	1460	1600	1620	1620	1850
Fracture toughn. KIC MPa · m ^½	*	*	*	14.5	10.6	10.0	9.9	10.6	9.6
Transverse rupt. strength N/mm ²	3100	2800	3000	2900	2700	3800	3200	4100	3500
Average grain size μm	1,3 – 2,5	> 6,0	1,3 – 2,5	1,3 – 2,5	1,3 – 2,5	0,5-0,8	0,8 – 1,3	0,5 – 0,8	0,5 – 0,8

* not measureable with testing method according Shetty