

Material Grade	JIS Grade	Density g/cm ³	Hardness (HRA)	T.R.S. (MPa)	Comp.S. (Mpa)	Application
G1A	VM20	15	92.8	2,370	6,100	Wire Drawing Die, Nozzle, Cutting Tool, Gauge, Powder Molding, Drawing Tool for Light Impact, Guide, etc.
G1	VM20	15.1	92	2,980	5,930	
G2	VM30	14.7	90.8	3,360	5,020	Powder Molding, Wire Drawing Die, Plug, Drawing Tool, Punching Tool, Roll Center, Mining Bit, Nozzle, Blade, Stone Tool, Ring, Gauge, Cutting Tool, Guide, Bush, Core, etc.
G3	VM40	14.7	90	3,240	4,700	
G4	VM40	14.5	89	3,220	4,400	Drawing Tool, Punching Tool, Punch, Cutting Tool, Cutter, Ring, Plug, Powder Molding for Special Configuration, Upper/Lower Punch, Core, etc.
G5	VM50	14.2	87.2	3,160	4,070	
G6	VC60	13.9	85.5	2,900	3,290	Drawing Tool for heavy Impact, Punching Tool, Heading Die, Nut Forming Die, Parts Forming Die, Impact Die, Punch, Hot pressing Die, Hot Roll, Cutter, Shearing Die, etc.
G6.5	VC70	14	84.5	2,700	3,200	
S6	VC70	13.6	84.5	2,850	3,120	
G7	VC70	13.6	84	2,750	3,040	Heading Die, Punch, Nut Forming Die, Shearing Die, Parts Forming Die, Impact Die, Hot pressing Die, Parts Forming, Knife, etc.
S7	VC70	13.5	83.5	2,700	2,900	
G8	VC70	13.4	83	2,690	2,750	
G9	VC70	13.1	82	2,530	2,530	Heading Die, Nut Forming Die, Punch, Parts Forming Die, Impact Die (Application for Heaviest Impact), etc.
G10	VC80	12.9	81	2,530	2,430	

G type (General Tungsten Carbide)

Standard alloys having excellent properties such as high hardness, high elastic modulus and high compressive strength. Applicable to various fields that require wear resistance, shock resistance, etc.