

Material Grade	JIS Grade	Density g/cm3	Hardness (HRA)	T.R.S. (MPa)	Comp.S. (Mpa)	Application
5F	VC60	14.5	87.5	2,750	3,440	Nut Forming Die, Parts Forming Die, Impact Die, Heading Die, Punch, Hot pressing Die, Warm pressing Die, Shearing Die, Cutter, etc.
6F	VC60	14.2	86	2,910	3,230	
F65	VU60	13.9	84.5	2,700	3,020	
7F	VU70	13.7	83.5	2,700	2,750	Nut Forming Die for Heavy Impact, Parts Forming Die, Impact Die, Heading Die, Hot pressing Die, Warm pressing Die, Shearing Die, Cutter, etc.
8F	VU70	13.4	82.5	2,590	2,720	

F type (Impact Resistant Tungsten Carbide)

Alloys featuring in that the Co(cobalt) phase, which is a shock-absorbing phase, is thickened by using coarser particles of WC than G type so that shock resistance and wear resistance are improved.