

Material Grade	Density g/cm3	Hardness (HRA)	T.R.S. (MPa)	Comp.S. (Mpa)	Application
RFF05 (FF05)	14.8	92.5	2,500	5,980	Drawing Tool for Light Impact, Powder Molding, Guide, Wire Drawing Die, Nozzle, Gauge, etc.
RFF10	14.5	91.5	3,040	5,630	
RFF20	14.2	91	3,730	5,040	General Drawing Tool, Punching Tool, Powder Molding, Guide, Nozzle, Cutting Tool, Wire Drawing Die, Core, Roll, Plug, Ring, Blade, etc.
RFF40	13.9	89.7	3,730	4,860	Drawing Tool for Heavy Impact, Punching Tool, Punch, Punch for Powder Molding, Cutting Tool, Bender, Die for Powder Molding(Special Configuration), etc.
RFF60	13.7	88.5	3,630	4,320	Upper/Lower Punch for Powder Molding with the edges of easy chipping, Die for Powder Molding of Special Configuration, etc.
RFF70	13	87	3,590	3,750	
RFF80	12.6	85.5	3,530	3,470	Upper/Lower Punch and Die for Powder Molding with the edges of very easy chipping, etc.

**RFF type (Corrosion Resistant Fine Grain Tungsten Carbide)**

Alloys featuring in that the binder phase of the FF type is reinforced so that excellent characteristics of the FF type are further improved. Since the Co binder phase that may cause corrosion is reinforced, electrolytic corrosion due to wire cut and corrosion after polishing are prevented.