

Material Grade Chart

Tungsten Carbide with Cobalt Binder Grades

Grade	Binder Content	Density (g/cm ³)	Hardness (HRA)	TRS (≥N/mm ²)	Grain Size	Remark
YG6	6% Co	14.80	90.0	2100	Medium	
YG6X	6% Co	14.90	91.0	2150	Fine	
YG6H	6% Co	14.90	91.5	2200	Fine	HIP Sintered
YG8	8% Co	14.60	89.0	2300	Medium	
YG12	12% Co	14.25	88.0	2650	Medium	
YG15	15% Co	13.90	87.0	2850	Medium	
YG20	20% Co	13.50	84.5	3050	Medium	

Remark

- 1N/mm²=145.038PSI
- Special grades to meet specific customer requirements are also available.

Material Grade Chart

Tungsten Carbide with Nickel Binder Grades

Grade	Binder Conten	Density (g/cm ³)	Hardness (HRA)	TRS (≥N/mm ²)	Grain Size	Remark
YN6	6% Ni	14.75	89.5	1750	Medium	
YN6X	6% Ni	14.80	90.5	1850	Fine	
YN6H	6% Ni	14.85	91.0	1900	Fine	HIP Sintered
YN8	8% Ni	14.55	88.5	1950	Medium	
YN8X	8% Ni	14.60	89.0	2050	Fine	
YN8H	8% Ni	14.65	89.0	2100	Fine	HIP Sintered
YN10	10% Ni	14.35	87.5	2150	Medium	
YN10X	10% Ni	14.40	88.0	2200	Fine	
YN10H	10% Ni	14.45	88.0	2250	Fine	HIP Sintered

Remark

- 1N/mm²=145.038PSI
- Special grades to meet specific customer requirements are also available.