

Cemented carbide grade: H20

Physical properties:

Density:	14,90 ± 0,1	g/cm ³
Hardness:	1600 ± 30	HV30
Transverse rupture strength:	493,14	10 ³ psi
Compression strength:	6350	MPa
Modulus of elasticity:	625	GPa
Modulus of rigidity:	256	GPa
Poisson's ratio:	0,22	
Thermal conductivity:	115,8	W/(m*K)
Thermal expansion coefficient:	5,5	10 ⁻⁶ /K
Fracture toughness:	11,5	MPa*m ^{1/2}

Yield strength = tensile strength

For WC-Co cemented carbide grades applies: The tensile strength is one third of the compression strength.

Microstructure:



WC grain size:	1,3 µm
Tungsten carbide:	94,00 wt%
Other carbides:	
Binder:	6,00 wt%