



Ultra Carbide Inc.

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G-ELIT

Ultra Carbide Inc. /Plant
G-Elit Hartstoffe GmbH
Lübarser Straße 10 -38
13435 Berlin

Carbide grade: DK 120

Chemical Composition:

WC 94,00 %
Co 6,00 %



Physical Properties:

Density (ISO 3369)	[g/cm ³]:	14,95 ± 0,20
Coercive Force (ISO 3326)	[kA/m]:	18,30 ± 2,79
	[Oe]:	230 35
Magnetic Saturation	[0.1µT·m ³ /kg]:	110 ± 10
Hardness (ISO 3878)	HV30 [kg/mm ²]:	1620 ± 50
Hardness (ISO 3778)	HRA	92.0 0,2
TRS (ISO 3327/Type B)	[N/mm ²]:	3100 Minimum
K1C	[MPa](m) ^{1/2}]	9,4 Minimum
Porosity [ISO 4505]		A<02 B<02
Microstructure		Homogenous, no eta-Phase, no free carbon
WC- Grain Size (FSSS)		1,3 µm
Classification [ISO 513]		K15/K20 US/Buick C2,C3,C4 (C7, C8 if coated)

Fine grade with high wear resistance and cutting edge stability, for counter sinks, formers, taps.