



Ultra Carbide Inc.

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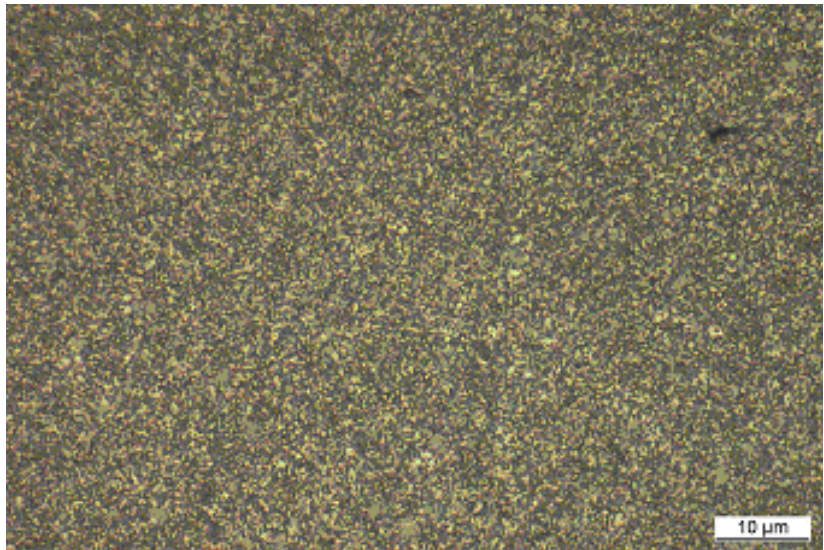
G-ELIT

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

Carbide grade: DK 460UF

Chemical Composition:

WC 90,00 %
Co 10,00 %



Physical Properties:

Density (ISO 3369)	[g/cm ³]:	14,45 ± 0,20
Coercive Force (ISO 3326)	[kA/m]:	21,49 ± 2,79
	[Oe]:	270 35
Magnetic Saturation	[0.1µT·m ³ /kg]:	165 ± 10
Hardness (ISO 3878)	HV30 [kg/mm ²]:	1620 ± 50
Hardness (ISO 3778)	HRA	92 0,2
TRS (ISO 3327/Type B)	[N/mm ²]:	3700 Minimum
K1C	[MPa](m) ^{1/2}]	9,6 Minimum
Porosity [ISO 4505]		A<02 B<02
Microstructure		Homogenous, no eta-Phase, no free carbon
WC- Grain Size (FSSS)		0,55 µm
Classification [ISO 513]		K30/K40 US/Buick C2, (C10 + C5 Coated)

Ultra fine grade with maximum toughness and high hardness for rotating tools.