



Ultra Carbide Inc.

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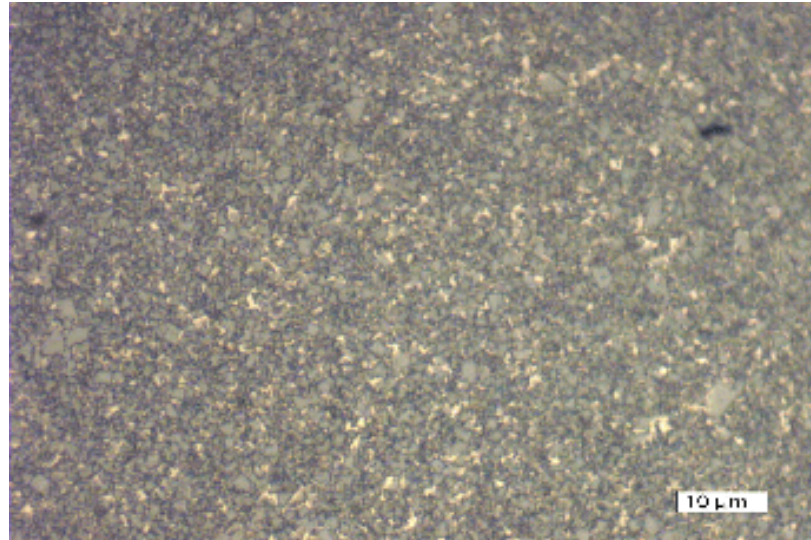
# G-ELIT

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

### Carbide grade: DK 405

#### Chemical Composition:

WC 90,00 %  
Co 10,00 %



#### Physical Properties:

Density (ISO 3369)	[g/cm <sup>3</sup> ]:	14,40 ± 0,20
Coercive Force (ISO 3326)	[kA/m]: [Oe]:	17,1 ± 2,79
Magnetic Saturation	[0.1µT·m <sup>3</sup> /kg]:	165 ± 10
Hardness (ISO 3878)	[HV 30]: HRA:	1510 ± 50 91.7 0,2
TRS (ISO 3327/Type B)	[N/mm <sup>2</sup> ]:	3200 Minimum
K1C	[MPa ](m) <sup>1/2</sup> ]	12,2 Minimum
Porosity [ISO 4505]	A<02 B<02	
Microstructure	Homogenous, no eta-Phase, no free carbon	
WC- Grain Size (FSSS)	1,0 µm	
Classification [ISO 513]	K30/K40 US/Buick C2, C10, C5 Coated	

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