



Ultra Carbide, LLC

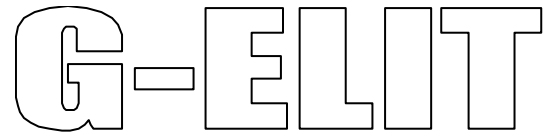
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Ultra Carbide Inc. /Plant

G-Elit Hartstoffe GmbH

Lübarser Straße 10 -38

13435 Berlin

Carbide grade: DK 120UF

Chemical Composition:

WC 93,00 %

Co 7,00 %



Physical Properties:

Density [g/cm³]: 14,70 ± 0,20
(ISO 3369)

Coercive Force [kA/m]: 27,85 ± 2,79
(ISO 3326) [Oe]: 370 35

Magnetic Saturation [0.1µT·m³/kg]: 115 ± 10

Hardness (ISO 3878) HV30 [kg/mm²]: 1850 ± 50

Hardness (ISO 3778) HRA 93.4 0,2

TRS [N/mm²]: 3000 Minimum

(ISO 3327/Type B)
K1C [MPa](m)^{1/2}] 9,4 Minimum

Porosity A<02 B<02
[ISO 4505]

Microstructure Homogenous, no eta-Phase, no free carbon

WC- Grain Size (FSSS) 0,5 µm

Classification K05 US/Buick C3, C4
[ISO 513]

Ultra fine grade with high hardness for reamer applications.