



Ultra Carbide, LLC

29550 WM. K. Smith Drive Suite C
New Hudson, MI 48165

Phone: 248-446-1744

Fax: 248-692-0494

email: sales@ultracarbide.com

website: www.ultracarbide.com

G-ELIT

Ultra Carbide Inc. /Plant

G-Elit Hartstoffe GmbH

Lübarser Straße 10 -38

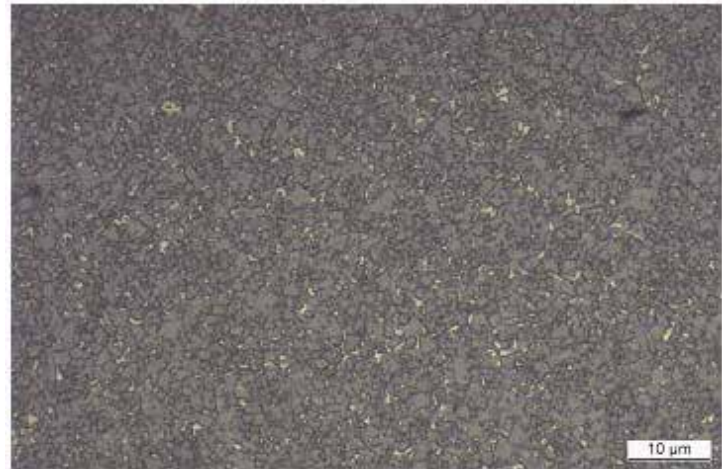
13435 Berlin

Carbide grade: DK 120

Chemical Composition:

WC 94,00 %

Co 6,00 %



Physical Properties:

Density [g/cm³]: 14,95 ± 0,20
(ISO 3369)

Coercive Force [kA/m]: 18,30 ± 2,79
(ISO 3326) [Oe]: 230 35

Magnetic Saturation [0.1µT·m³/kg]: 110 ± 10

Hardness (ISO 3878) HV30 [kg/mm²]: 1620 ± 50

Hardness (ISO 3778) HRA 92.0 0,2

TRS [N/mm²]: 3100 Minimum

(ISO 3327/Type B)
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 K15/K20 US/Buick C2,C3,C4 (C7, C8 if coated)
[ISO 513]

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