



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

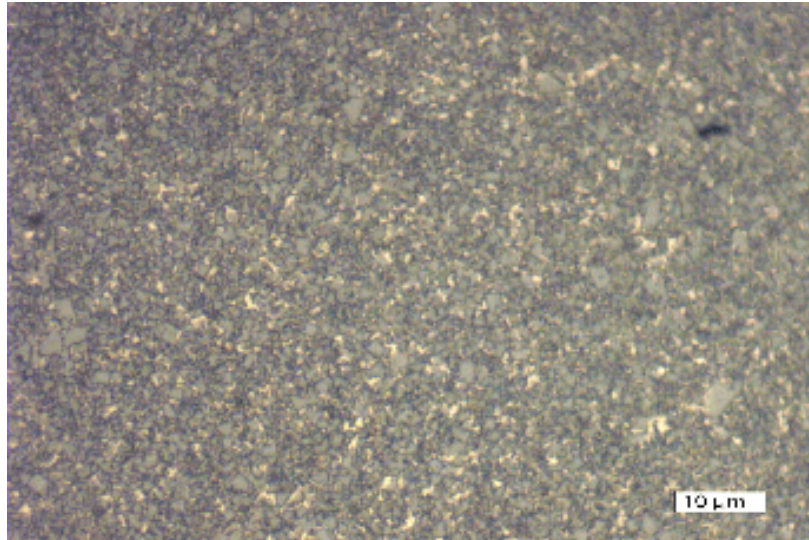
13435 Berlin

Carbide grade: DK 405

Chemical Composition:

WC 90,00 %

Co 10,00 %



Physical Properties:

Density [g/cm³]: 14,40 ± 0,20
(ISO 3369)

Coercive Force [kA/m]: 17,1 ± 2,79
(ISO 3326) [Oe]:

Magnetic Saturation [0.1µT·m³/kg]: 165 ± 10

Hardness [HV 30]: 1510 ± 50
(ISO 3878) HRA: 91.7 0,2

TRS [N/mm²]: 3200 Minimum
(ISO 3327/Type B)

K1C [MPa](m)^{1/2}] 12,2 Minimum

Porosity A<02 B<02
[ISO 4505]

Microstructure Homogenous, no eta-Phase, no free carbon

WC- Grain Size (FSSS) 1,0 µm

Classification K30/K40 US/Buick C2, C10, C5 Coated
[ISO 513]

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