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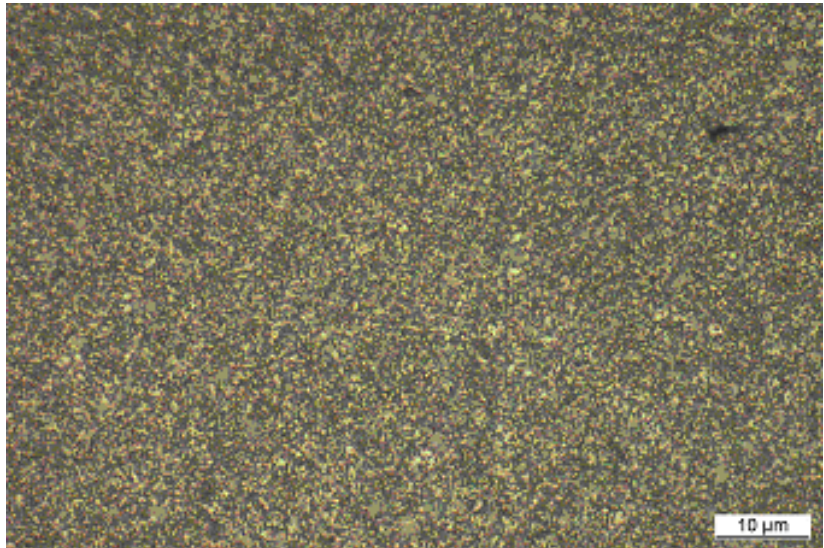
BERLIN CARBIDE

Carbide grade: DK 460UF

Chemical Composition:

WC 90,00 %

Co 10,00 %



Physical Properties:

Density [g/cm³]: 14,45 ± 0,20
(ISO 3369)

Coercive Force [kA/m]: 21,49 ± 2,79
(ISO 3326) [Oe]: 270 35

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

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

Hardness (ISO 3778) HRA 92 0,2

TRS [N/mm²]: 3700 Minimum

(ISO 3327/Type B)
K1C [MPa](m)^{1/2}] 9,6 Minimum

Porosity A<02 B<02
[ISO 4505]

Microstructure Homogenous, no eta-Phase, no free carbon

WC- Grain Size (FSSS) 0,55 μm

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

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