



Ultra Carbide, LLC

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BERLIN CARBIDE

Carbide grade: DK 255 F

Chemical Composition:

WC 92,00 %

Co 8,00 %



Physical Properties:

Density [g/cm³]: 14,55 ± 0,20
(ISO 3369)

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

Magnetic Saturation [0.1μT·m³/kg]: 145 ± 10

Hardness [HV 30]: 1720 ± 50
(ISO 3878) HRA: 92.6 0,2

TRS [N/mm²]: 3500 Minimum

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) 0,7 μm

Classification K20 US/Buick C1, C9, C5 Coated
[ISO 513]

Fine grade with high wear resistance suitable for cast iron, hard Al-alloys and Ti-Aluminide.