



Ultra Carbide Inc.

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# G-ELIT

Ultra Carbide Inc. /Plant  
G-Elit Hartstoffe GmbH  
Lübarser Straße 10 -38  
13435 Berlin

**Carbide grade: DK 255 F**

**Chemical Composition:**

WC 92,00 %  
Co 8,00 %



**Physical Properties:**

Density [g/cm<sup>3</sup>]: 14,55 ± 0,20  
(ISO 3369)

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

Magnetic Saturation [0.1µT·m<sup>3</sup>/kg]: 145 ± 10

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

TRS [N/mm<sup>2</sup>]: 3500 Minimum  
(ISO 3327/Type B)

K1C [MPa ](m)<sup>1/2</sup>] 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.