

Carbide-report



Carbide: K10F

Manufacturer: Sinter Sud

Manufacturer information:

Chemical composition:

WC (including doping): 90.0%
Co: 10%

Physical Characteristics

Density: 14.42 g/cm³ ± 0.1
Hardness 92.1 HRA ± 0.3
Coercitive Field: 230 Oe ± 30
Magnetic Saturation: 140-162 G*cm³/g
TRS: 3700N/mm²

Structure

Grain Size: 0.8 µm
Porosity < A00; B00; C00
Metallographic Analysis: Free of eta-phase and contamination

Composition:

W	Co	Cr	V	Mo	Ta
88.6	10.7	0,539	0,09	-0,007	0,104

Results: adhesion of coating

Parameter sandblasting: sandblasting material: F90; pressure: 3.5 bar; distance: 1 cm

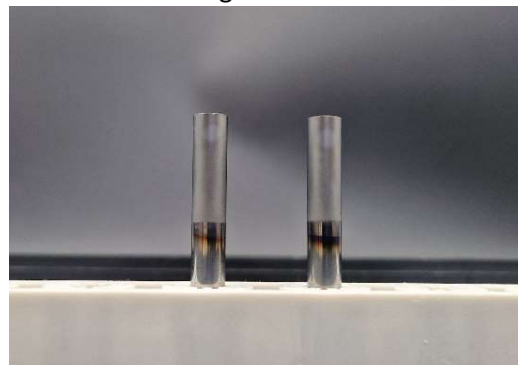
Adhesion of coating (ULTRA-DIA) after 180 s of sandblasting: very good

Overview: adhesion of coating

Before sandblasting



After sandblasting



Microscopy image: adhesion of coating

Before sandblasting



After sandblasting



Reference: BA_22_0410