PCD grade: CTX002 Precision machining and finishing

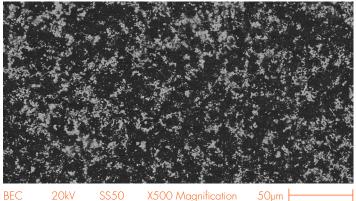
Physical and metallurgical properties		
Property	Measurement	Applicable standard
Transverse rupture strength characteristic strength (MPa)	2175	ASTM C1239
Weibull modulus	7.1	
Fracture toughness mean (MPa.m½)	9.12	Shetty et al. (1995)
Elastic modulus (GPa)	950	ASTM E494
Poisson's ratio	0.1	
Density (g/cm3)	4.36	Archimedes principle
Thermal conductivity (W/m/K) at 500°C	304.3	Calculated from thermal diffusivity, specific heat capacity and density
Knoop hardness (Indentation)(GPa)	45	ASTM C1326-03

Diamond grain size (µm)	Cobalt ratio (wt%)
~2	~13%

All property measurements are carried out, where possible, in accordance with relevant international standards. The data quoted is for comparative purposes only and should not be viewed as a product specification.

Element Six is constantly striving to improve its products and, therefore, reserves the right to alter product properties without prior notice.

Typical microstructure



elementsix

Contact us

T +135-152-51099 E david@winkingtec.com W www.winkingtec.com



This product has been manufactured under the controls established by a Bureau Veritas Certification approved management system.