meusburger

MATERIAL NO.:			CF-H25S+
DESIGNATION:	ISO: US Industry:	K20/K30 C10/C13	TECHNICAL TIP: >> Alternative to CF-H40S+ for abrasive wear
CHEMICAL COMPOSITION (%):	WC Co Other	90.3 8.5 1.2	» After wire cutting, dry the parts for approx. 2-3 hours in a furnace at max. 100-110 °C to remov the liquid from the binder
PHYSICAL AND MECHANICAL CHA	RACTERISTICS:		
» Average WC grit size:		very fine to fine	
» Density (ISO 3369):		14.55 g / cm ³	
» Hardness (ISO 3878):		1680 HV10	
>> Flexural strength (ISO 3327):		3600 MPa	
>> Compressive strength:		6500 MPa	
» Elastic modulus:		592 GPa	
>>> Fracture toughness:		10.3 MPa m ^{1/2}	
>> Thermal conductivity at 100 °C:		90 W/mK	
» Coefficient of thermal expansion (20-400 °C):		5.1 10 ⁻⁶ / K	
» Corrosion resistance:		yes	
CHARACTER:		» Very fine/fine grain grade with good edge stability despite high hardness	
APPLICATION:		» Cutting punches and dies for abrasive materials and materials prone to welding	
TREATMENT BY:		» Polishing:	
		highly suitable >>> EDM:	
		» EDM: suitable	
		» Coating:	
		suitable	
		>>> Laser cutting:	
		suitable	

TYPICAL MICROSTRUCTURE VIEW:

