meusburger

MATERIAL NO.:		CF-H40S+
DESIGNATION:	**ISO:** K40 **US Industry:** C11/C12	**TECHNICAL TIP:** » *Excellent corrosion resistance in connection with the mechanical and physical characteristics required in die making* » *After wire cutting, place the parts for approx. 2–3 hours into a furnace with 100–110 °C max. to dry the binding material*
CHEMICAL COMPOSITION (%):	*WC 86.6* *Co (bind. mat.) 11.8*	

PHYSICAL AND MECHANICAL CHARACTERISTICS:

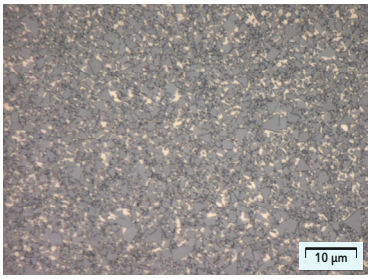
» Average WC grit size:	*fine*
» Density (ISO 3369):	*14.15 g/cm³*
» Hardness (ISO 3878):	*1400 HV10*
» Flexural strength (ISO 3327):	*3200 MPa*
» Compressive strength:	*4900 MPa*
» Elastic modulus:	*551 GPa*
» Fracture toughness:	*12.5 MPa m½*
» Thermal conductivity at 100 °C:	90 W/mK
» Coefficient of thermal expansion (20–400 °C):	*5.4 10⁻⁶m/mK*
» Corrosion resistance:	yes

CHARACTER:
» *The universal carbide grade – the ideal compromise between hardness and fracture toughness with high edge stability*

APPLICATION:
» *Blocks for eroding, cutting punches, and dies with maximum wear resistance; active parts for stamping, embossing, bending, and forming*

TREATMENT BY:
» Polishing:
highly suitable
» EDM:
suitable
» Coating:
suitable
» Laser cutting:
suitable

TYPICAL MICROSTRUCTURE VIEW:



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