



RSALLOYS

HOLDING GROUP

AZIENDA CERTIFICATA
ISO 9001

CARBIDE

METALLO DURO

Zapp Z-G100K-HM

SCHEDA TECNICA

RSACCIAI RSENGINEERING KENOTHERM

Zapp

Z-G100K-HM

SCHEDA TECNICA

ZAPP ALLOY

- Z-G100K-HM

ISO -CODE, ISO 513

- G20

Typical Chemical Composition (Weight-%)

Element	Weight %
Wc	Essential part
Co	10%

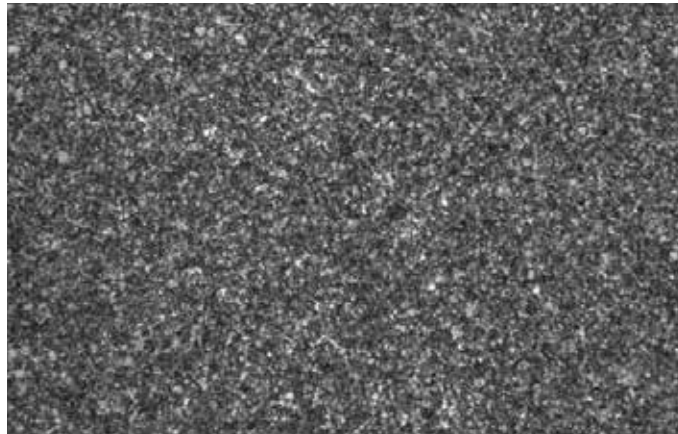
SPECIAL PROPERTIES

Highly wear-resistant carbide, submicron grade, optimized for the Wire EDM Process, high adhesive wear resistance, very high compressive strength, good edge stability, ideal grade for machining thin sheets and strips

Industry	Weight %
Sheet metal working industry & automotive	EDM blocks, bushings and punches for punching and cutting thin sheet and strips
Electronics industry	EDM blocks, bushings and punches for punching and cutting of electrical sheets, fuel cells
Paper processing industry	Components for grinding and shredding technology of paper and pulp products
Powder processing industry	Components for mixing and crushing, parts for powder pressing tools

Typical Microstructure

Carbide Z-G100K -HM



Grade Classification

Grade	Z-G100K-HM
Average grain size (μm)	0.6
Grain Size classification	submicron
Porosity, ISO 4505	A02, B00, C00
Density (g/cm ³), ISO 3369	14.37
Hardness HV 30	1,620
Hardness HRA	92
Compressive strength (MPa), ISO 4506	5,000
Fracture toughness KIC (MPa·m ^{1/2})	9.4
Transverse rupture strength (MPa), ISO 3327	3,800