



RSALLOYS

HOLDING GROUP

AZIENDA CERTIFICATA
ISO 9001

CARBIDE

METALLO DURO

Zapp Z-G100K-HM

SCHEDA TECNICA

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% |

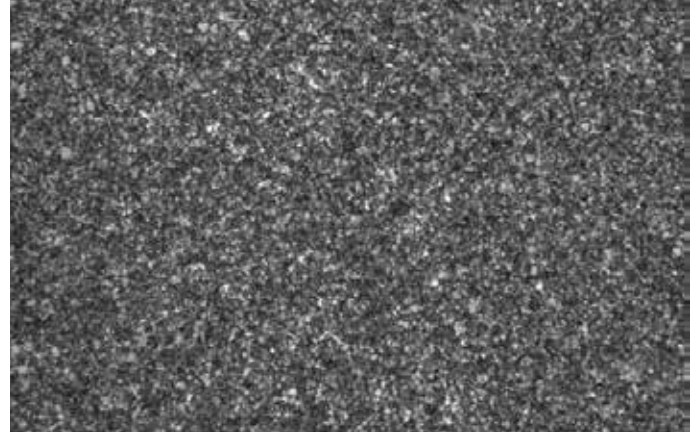
SPECIAL PROPERTIES

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 K _{IC} (MPa·m ^{1/2}) | 9.4 |
| Transverse rupture strength (MPa), ISO 3327 | 3,800 |