

Zapp Z-G550F-HM

Zapp Alloy

○ Z-G550F-HM

ISO-Code, ISO 513

○ G55

Typical Chemical Composition (Weight-%)

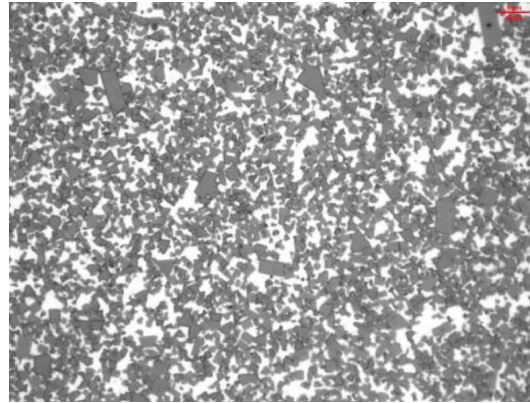
Element	Weight %
WC	essential part
Co	27 %

Special Properties

tough carbide, fine grain grade, good compromise between wear resistance and crack or fracture toughness, ideal for screw manufacturing and general forming tasks, forming and deep and sheet metal deep drawing and collar drawing, material with high tensile strengths

Industry	Suitable for
sheet metal working industry & automotive	EDM blocks, bushings and punches for punching and cutting thin sheets & strips
recycling and shredding technology	components for crushing and shredding technology
forming & Automotive	tooling parts for screw, rivet, spring, wire & tube manufacturing

Typical Microstructure Carbide Z-G550F-HM



Grade Classification

Grade	Z-G550F-HM
Average grain size(μm)	1.0
Grain Size classification	fine
Porosity, ISO 4505	A02, B00, C00
Density (g/cm ³), ISO 3369	12.95
Hardness HV 30	920
Hardness HRA	84.8
Compressive strength(MPa), ISO 4506	3,000
Fracture toughnessKIC (MPa*m ^{1/2})	15.7
Transvers rupture strength (MPa)ISO 3327	3,200