

Z-G500F-HM Solid Carbide / Hartmetall

Data Sheet - Tooling Alloys

ZAPP

Zapp is certified to ISO 9001

Zapp Alloy /
Zapp-Werkstoff

Z-G500F-HM

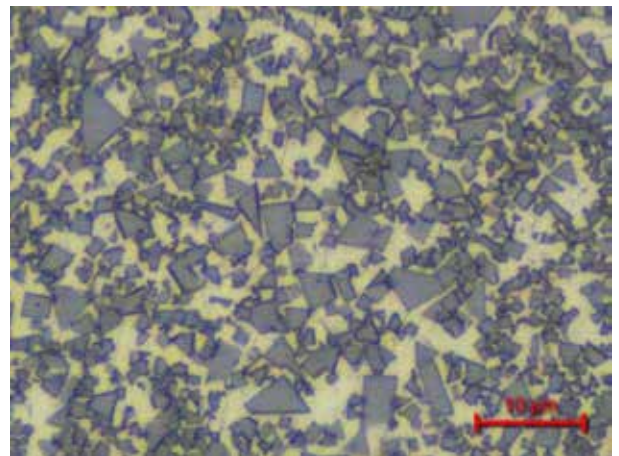
Typical Chemical Composition (Weight-%) /
Typische chemische Zusammensetzung (Gew.-%)

Element / Bestandteil	Weight % / Gewichtsanteil in %
WC	Essential part / Hauptbestandteil
Co	25.0

Grade Classification /
Sortenklassifizierung

Grade / Sorte	Z-G500F-HM
Typical name / typ. Bezeichnung	G50 / G55
Grain size classification / Klassifikation Korngröße	fine fein
Porosity / Porosität, ISO 4505	A02, B00, C00
Density / Dichte (g / cm ³), ISO 3369	13.00
Hardness / Härte HV 10 HRA	920.0 85.0
Grade description Sortenbeschreibung	Cold forming dies, Tough grade Matrizen zur Kaltumformung, zähe Sorte
Product form Produktform	Cold heading die blank Kaltstauchrohling

Typical Microstructure /
Typisches Gefüge-Schaubild



Typical values /
Typische Werte

Compressive strength (MPa), ISO 4506 Druckfestigkeit	3,100.0
Fracture toughness KIC (MPa*m ^{1/2}) Risszähigkeit	22.0
Transvers rupture strength (MPa), ISO 3327 Biegebruchfestigkeit	> 3,200.0

TOOLING ALLOYS

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