

CERTIFICATION OF COMPLIANCE

Certification: 1599760-1	Manufactured Date: 08/27/2024	Batch: 24168880	 Certified Inspector
Customer: 		Sales Order: 1200233	
Customer Part: IN03BL002.5B		Purchase Order: 80006809	
Quantity Shipped: 21.999 kg (180 ea)			
Finish: Centerless Ground & Polished			27 August, 2024 Date
Alloy: FWM® 1537 Alloy 1		Condition: Warm Worked	
Size: 2.5 mm x 3000 mm			
Specification: ASTM F1537-20, ISO 5832-12:2019			
The material in this shipment has been certified to comply to the above specification			

RAW MATERIAL CHARACTERISTICS

Heat Number: K3M03
Batch Description: Coil

Balance	Cobalt	Carbon (C) (%)	0.0320
Chromium (Cr) (%)	27.3900	Iron (Fe) (%)	0.3200
Manganese (Mn) (%)	0.6400	Molybdenum (Mo) (%)	5.8000
Nickel (Ni) (%)	0.3300	Nitrogen (N) (%)	0.1290
Silicon (Si) (%)	0.3700	Alumina Heavy (ea)	0.0
Alumina Thin (ea)	0.3	Globular Oxide Heavy (ea)	0.0
Globular Oxide Thin (ea)	0.5	Silicate Heavy (ea)	0.0
Silicate Thin (ea)	0.0	Sulfide Heavy (ea)	0.0
Sulfide Thin (ea)	0.0	Grain Size (ea)	7.0
RM Country of Origin	USA	RM DFARS Compliant	Compliant
RM Melt Method	VIM + ESR	RoHS 3 (EU Directive 2015/863)	Compliant
Ultrasonic Tested	Yes	RoHS	

FINISHED GOOD MATERIAL CHARACTERISTICS

Size Tolerance: Diameter +0.000 / -0.025 mm		Discrete Part Length +50.8 / -50.8 mm	
Batch Description: Centerless Ground and Polish			
Diameter (mm)	2.484	Discrete Part Length (mm)	2,997.2
Breakload (kg)	636	Tensile Strength (mpa)	1,287
Elongation (%)	43	4D Elongation (%)	43

Made in the USA from domestic and foreign materials.

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Specification: ASTM F1537-20, ISO 5832-12:2019			
The material in this shipment has been certified to comply to the above specification			

Yield Load (kg)	417	Yield Strength (mpa)	844
Grain Size (ea)	8.0	MetLab Report Number	24-07-97448
Reduction of Area (%)	34.8	Straightness	Pass
Rockwell Hardness C (ea)	38.00		

TESTING PROPERTIES

Crosshead Speed (in/min)	0.1050	Secondary Crosshead Speed (in/min)	1.4000
Gauge Length (in)	2.0000		

Batch Description: Eddy Current Tested

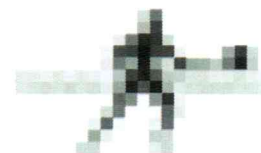
Eddy Current Test	Pass	Straightness	Pass
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CERTIFICATION NOTES

Material is certified in accordance with DIN EN.10204 certificate type 3.1

Abnahmeprüfzeugnis 3.1 Inspection certificate 3.1

gemäß / according to DIN EN 10204



Materialbescheinigung / Material Confirmation

Werkstoff / Material: Kgen – Technical Product
Kunde / Customer: 
Bezeichnung / Description: Ø 8 x 15 mm

Liefermenge / Quantity: 88,21 kg
Lieferdatum / date of deliver: 05.08.2024
Bestell. Nr.: / Order no.: RM202407015
Chargen-Nr. / Lot-No.: 2404-00190
Datum / Date: 24.07.2025

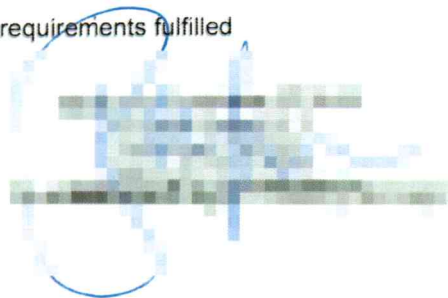
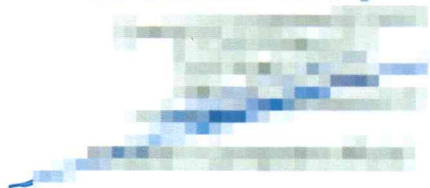
1. Werkstoffkennwerte / Material Properties:

Chemische Zusammensetzung (Massen %) / Chemical Composition (Mass %)

Element	Chargenbezogene Werte / Batch-related values %
Co	61,80
Cr	27,80
W	8,20
Si	1,60
Mn	0,20

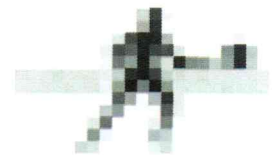
Normen / Standards: DIN EN ISO 22674 / DIN EN ISO 13485

Die Qualitätsanforderungen sind erfüllt / All quality requirements fulfilled



Abnahmeprüfzeugnis 3.1 Inspection certificate 3.1

gemäß / according to DIN EN 10204



Materialbescheinigung / Material Confirmation

Werkstoff / Material: Kgen – Technical Product
Kunde / Customer: 
Bezeichnung / Description: Ø 9,5 x 11 mm

Liefermenge / Quantity: 50 kg
Lieferdatum / date of deliver: 02.08.2024
Bestell. Nr.: / Order no.: RM202407014
Chargen-Nr. / Lot-No.: 24-00150
Datum / Date: 24.07.2025

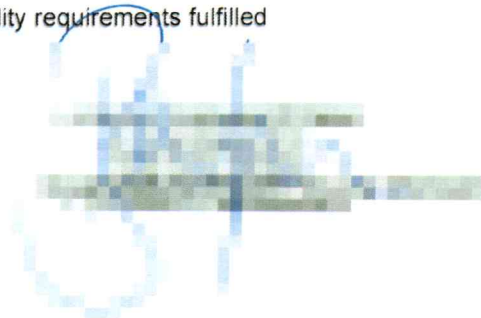
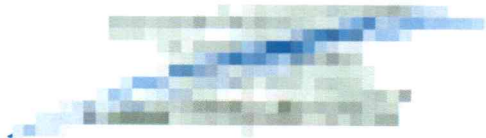
1. Werkstoffkennwerte / Material Properties:

Chemische Zusammensetzung (Massen %) / Chemical Composition (Mass %)

Element	Chargenbezogene Werte / Batch-related values %
Co	61,70
Cr	27,80
W	8,20
Si	1,70
Mn	<0,30

Normen / Standards: DIN EN ISO 22674 / DIN EN ISO 13485

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Materialbescheinigung / Material Confirmation

Werkstoff / Material: KDisc – Technical Product
Kunde / Customer: 
Bezeichnung / Description:

Liefermenge / Quantity: 100 kg
Lieferdatum / date of deliver: 15.04.2025
Bestell. Nr.: / Order no.: RM202504002
Chargen-Nr. / Lot-No.: X
Datum / Date: 25.06.2025

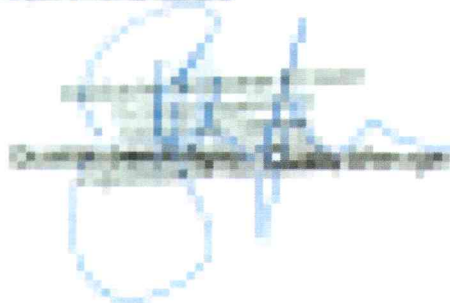
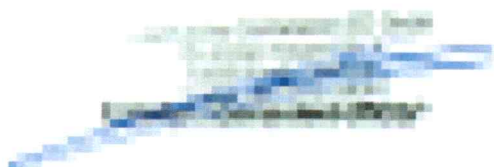
1. Werkstoffkennwerte / Material Properties:

Chemische Zusammensetzung (Massen %) / Chemical Composition (Mass %)

Element	Chargenbezogene Werte / Batch-related values %
Co	61,7
Cr	27,8
W	8,5
Si	1,6
Mn/Fe	≤ 1,0

Normen / Standards: DIN EN ISO 22674 / DIN EN ISO 13485

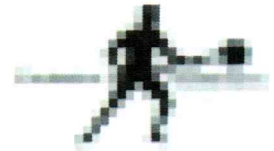
Die Qualitätsanforderungen sind erfüllt / All quality requirements fulfilled



Heruntergeladen von: 

Abnahmeprüfzeugnis 3.1 Inspection certificate 3.1

gemäß / according to DIN EN 10204



Materialbescheinigung / Material Confirmation

Werkstoff / Material: Kgen – Technical Product
Kunde / Customer: XXXXXXXXXX
Bezeichnung / Description: Ø 8,0 x 15 mm

Liefermenge / Quantity: 200 kg
Lieferdatum / date of deliver: 15.04.2025
Bestell. Nr.: / Order no.: RM202504002
Chargen-Nr. / Lot-No.: 2408-00230
Datum / Date: 25.06.2025

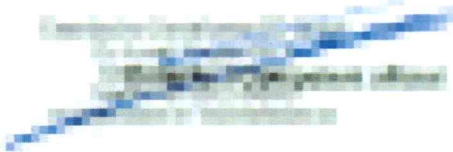
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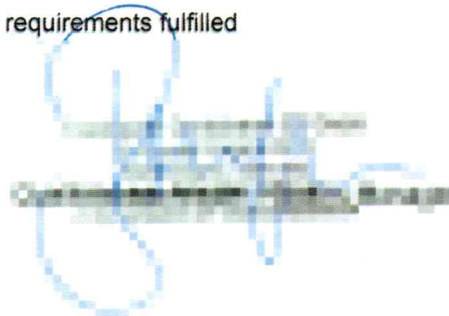
Chemische Zusammensetzung (Massen %) / Chemical Composition (Mass %)

Element	Chargenbezogene Werte / Batch-related values %
Co	61,34
Cr	27,62
W	8,42
Si	1,71
Mn	0,22
Fe	0,09

Normen / Standards: DIN EN ISO 22674 / DIN EN ISO 13485

Die Qualitätsanforderungen sind erfüllt / All quality requirements fulfilled


Geprüft von: XXXXXXXXXX
Inspektor: XXXXXXXXXX


Geprüft von: XXXXXXXXXX
Hersteller: XXXXXXXXXX


Hersteller: XXXXXXXXXX