

Zapp Precision Metals GmbH, Postfach 17 20, D-58212 Schwerte

Inari Organics S.L.
Calle Nogal 2 Local 3
18100 ARMILLA
SPANIEN

Certificate No./Attest-Nr. 1210091590000020 01

Date/Datum 10.12.2020 Page/Seite/Page 1/2

Customer PO# 43/2020 of/vom/du 01.12.2020
 Kunden-Bestell-Nr. / No. de commande
Customer Part No. TI_G5_5
 Kunden-Material-Nr. / Votre No. d'article
Customer Specification ISO 5832-3:2016 (E); ASTM F136-13
 Kunden-Spezifikationen / Spécification de client

Customer No. 650953
 Kundennr. / Code client
Sales Order No. 1202033180
 Auftragsnr./No. de commande
Material No. 5501408
 Materialnr./No. d'article
Material Designation TI 6AL 4V-ELI TITANIUM ALLOY FOR IMPLANTS
 Bezeichnung / Désignation
Grade / Alloy ERGITAN 3.7165 MG
Finish drawn, annealed, straightened, stress relieved annealed,
 ground, polished
 surface eddy-current tested
Diameter 5,0000 mm
Diameter tolerance DIN EN 10278 h7
Bar Length 3.000,000 mm
Bar Length tolerance 0,000 mm / 50,000 mm

Chemical Composition (%)
 Chemische Zusammensetzung / Composition chimique
Melting Process: 2XVAR
 Erschmelzungsart / Mode d'élaboration
Heat No. 00A8L56
 Schmelzennr./ No. de coulée

	C	N	O	Fe	Al	V	Ti	β Trans
Actual	0,005	0,0020	0,1100	0,010	5,95	3,98	bal.	971,0

Production Lot 5051777
 Produktionslos / Unité de production
Weight 100,000 KG
 Gewicht / Poids
Inspection Lot 020000406332 / 000001
 Prüflos / Prüfeinheit / Unité d'inspection

Pack.Unit M110987001
 Packstücke / No. de caisse

Inspection result
 Prüfergebnisse / Résultats d'examen

	Target (min)	Target (max)	Actual (min)	Actual (max)
Tensile Strength (MPa)	900	1500	1071 ✓	1071 ✓
Yield Strength 0.2 (MPa)	795		847 ✓	855 ✓
Elongation A4d (%)	10,0		17,2 ✓	18,0 ✓
Elongation A5 (%)	10,0		15,1	15,4
Elongation A5d gage length(mm)	15,0	99,0	25,0	25,0
Elongation A4d gage length(mm)	15,0	99,0	20,0	20,0
Reduction of area Z (%)	25,0		55,1	58,1
Average Roughness Ra (µm)		0,500	0,348	0,466
Hydrogen content at finish %		0,0120	0,0031	0,0031

AWE / A. HENNIG

+49 2304 79-7162

This certificate has been issued by computer and
 is valid without signature acc. to EN 10204 p.5.

Acceptance / Inspection representative
 Abnahme / Abn.Beauftragter
 Contrôle / Contrôleur

Phone
 Telefon
 Téléphone