

**Customer**  
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**Manufacturer**  
**ACME Metal Works GmbH**  
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**Digital Material Passport**

ID	DMP-METAL-005	Version	1.0.0
Issue Date	2025-05-17	Certificate Type	EN 10204 3.1

**Business Transaction**

Order		Delivery	
Order ID	PO-23456	Delivery ID	DN-65432
Position	1	Position	1
Date	2025-05-01	Date	2025-05-16
Quantity	1000 kg	Quantity	1000 kg

**Product Information**

Product Name	Titanium Alloy Ti-6Al-4V ELI
Batch ID	T-65432-01
Heat Treatment	Annealed
Surface Condition	Machined
Production Date	2025-05-15
Country of Origin	DE

**Material Designations**

System	UNS
Designation	R56401

**Product Shape**

Form	RoundBar
Length	3000 mm
Diameter	30 mm

**Chemical Analysis**

Heat Number	T-65432
Melting Process	VAR
Casting Date	2025-05-14
Sample Location	Product

Elements

Symbol	Ti	Al	V	Fe	O	C	N	H
Unit	%	%	%	%	%	%	%	%
Min	-	5.5	3.5	-	-	-	-	-
Max	-	6.5	4.5	0.25	0.13	0.08	0.05	120
Actual	89.32	6.02 ± 0.05	3.95 ± 0.03	0.18	0.11	0.026	0.012	35

Mechanical Properties

Property	Symbol	Unit	Actual	Minimum	Maximum	Method	Status
Tensile Test Results						ASTM E8	✓
Fatigue Test						ASTM E466	✓
Notch Sensitivity			0.85 - 0.92			Internal Method TS-5432	✓

Validation

We hereby certify that the material described above has been manufactured and tested in accordance with ASTM F136 and meets all requirements for surgical implant applications.

Validated By

Name	Title	Department	Date
Dr. Markus Weber	Head of Metallurgy	Research & Quality	2025-05-17