



"VSMPO-AVISMA Corporation"

Cert. 23565 Y 18



1, Parkovaya St., Verkhnyaya Salda, Sverdlovsk Reg.,
624 760, RUSSIA

Phone Marketing and Sales (34345) 62-947

Fax Clerical office (34345) 51-498

Quality Management System complies
to AS 9100/ISO 9001, CERT. № 01 117 048312

INSPECTION CERTIFICATE

Certificate is issued per
requirements of EN-10204-3.1



CERTIFICATE: 23565 Y 18

Purchaser: TIRUS INTERNATIONAL SA, Switzerland.

Quality/alloy: GRADE5 (Ti6Al4V)

Condition of delivery: Annealed

Date: 15.10.2018

Contract: 3922001 TNO Annex 1

Purchaser order: 18-0022300/DO-001066/1811-215-Z800

Terms of delivery: ASTM B 265-15 (Gr.5)

Plate #	Units	Weight, (kg)	Object	Dimensions (mm/inch) or Drawing #	Heat #	Lot #
1 - 22	22	2234	Plate	6,35 ^{+1,143/-0,254} x 1120 ^{+6/-0} x 2910 ^{+5/-0}	8-33-10439	12706

Chemical Composition, %

Ti-remainder

Requirement:

	Al	V	C	Fe	O	N	Y	In the Part, %	H	-	-	-	-	-	-	Residuals, %
ASTM B 265-15 (Gr.5)	5,50 - 6,75	3,50 - 4,50	max 0,08	max 0,40	max 0,20	max 0,05	max 0,005	Sample #	max 0,015							max 0,10 max 0,40
TOP	6,30	4,21	0,011	0,17	0,17	0,004	<0,001	1	0,0039							<0,10 0,084
BOTTOM	6,31	4,32	0,013	0,20	0,168	0,005	<0,001									<0,10 0,091

Requirement:

0,20% Tensile strength

proof stresses

MPa

min

828

895

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

Microstructure testing: N/A

Microstructure testing: N/A

Ultrasonic inspection: N/A

We certify that, subject to exceptions or concessions listed hereafter, the supplies detailed here were manufactured in accordance with the technical specifications of the contract, order or sub-order and that, all inspections operations and tests, having been completed, the supplies comply in every respect with the relevant particular specifications, drawings, and relevant standards and regulations in force.
Information particular to the supplies delivered:
specify the reference of concessions granted:

Production start-up date: 12.09.2018

Approved by

Bazhina M.V.

Signature

Stamp

