



"VSMPO-AVISMA Corporation"

Cert. 05225Y17

1, Parkovaya St., Verkhnyaya Salda, Sverdlovsk reg.,

624 760, RUSSIA

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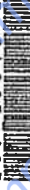
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# INSPECTION CERTIFICATE

Heat 8-15-03806



Lot 26015-2



EN 10204-3.1 AS 9102EN ISO 9001 CERT. No 01-117 062512

CERTIFICATE: 05225Y17

Date: 28.03.2017

Contract: 84054231TRD Annex 19

Purchaser: TIRUS INTERNATIONAL SA, Switzerland.

Purchaser order: 16-0017120/32532-RM

Quality/alloy: Ti-6Al-4V

Condition of delivery: Annealed

Terms of delivery: AMS-T-9046B, AMS 4911N, D1-4426

Sheet #	Units	Weight, (kg)	Object	Dimensions (mm/inch) or Drawing #	Heat #	Lot #	Residuals, %	
							each	total
1-48	48	1325	Sheet	2,794 x 914,4 x 2438,4 (11" x 36" x 96")	8-15-03806	26015-2	max	0,40
	1	0,06	Slice*	2,794 x 25,4 x 203,2 (1,11" x 1" x 8")			<0,10	0,076

Requirement:	Chemical Composition, %				Ti-remainder				Heat treatment conditions T, °C time	Bend test Angle
	Al	V	C	Fe	max	O	N	Y		
AMS 4911N	5,50 - 6,75	3,50 - 4,50	0,08	0,30	0,05	0,20	0,05	0,005	0,05	105°
AMS-T-9046B	6,21	4,32	0,025	0,19	0,004	0,142	<0,001	<0,001	0,004	105°
BOTTOM	6,16	4,20	0,025	0,18	0,004	0,148	<0,001	<0,001	0,004	105°
Requirement:	0,20% proof stress	min	126	134,7	146,3	143,6	143,6	148,5	148,5	13,8
AMS 4911N	132,7	min	134	146,3	143,6	143,6	148,5	148,5	13,8	12,2
AMS-T-9046B	134,7	min	134	146,3	143,6	143,6	148,5	148,5	13,8	12,2
	Longitudinal	min	134	146,3	143,6	143,6	148,5	148,5	13,8	12,2
	Long Transverse	min	134	146,3	143,6	143,6	148,5	148,5	13,8	12,2

Macrostructure testing N/A  
 Microstructure testing As per AMS 4911N par. 3.5.3.3, 3.5.4.2;  
 AMS-T-9046B par. 3.8, 3.11;  
 Material without surface contamination.

Ultrasonic inspection N/A

We hereby test, subject to exceptions or concessions listed hereafter, the supplies detailed here unless manufactured in accordance with the technical specifications of the contract, order or sub-order and that, all inspectors 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.

Seller hereby acknowledges that the parts and/or materials being shipped under this order are intended for use under Boeing's Federal Aviation Administration (FAA) issued Production Certificate 703 and no articles (or constituent parts thereof) or the accompanying paperwork (e.g., pedigrees, shippers, etc.) contain any Federal Aviation Administration-Parts Manufacturer Approval (FAA-PMA) markings.

VSMPO-AVISMA Corporation has complied with all producer requirements of AS6279  
 Ingot melted by VSMPO, Verkhnyaya Salda, Russia  
 Ingot is manufactured in accordance with Method MP 39.050.BO-1997 Rev. W  
 Production start-up date: 12.01.2017



Signature

Approved by Alexeeva O.M.