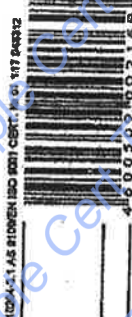


6434.94  
6434.10 | 2

# INSPECTION CERTIFICATE

1, Parkovaya St, Verkhnyaya Saida, Sverdlovsk reg.,  
624 760, RUSSIA  
Phone (34345) 2-38-32, 2-17-66  
Fax (34345) 2-47-36, 2-05-00

**AVSMPO** VSMPO-AVISMA Corporation  
**CERTIFICATE** 05485Y11 Date: 20.04.2011  
 Purchaser: Tirus International SA, Switzerland  
 Quality/Alloy: 6AL4V Delivery Condition: Annealed



Contract: 34054105TDD Annex 14  
 Purchaser order: 26491-RM  
 Delivery Terms: AMS 4911L

Plate No	Units	Weight (kg)	Object	Dimensions (mm) or Drawing No	Heat No	Lot No
1	1	593	PLATE	65 x 1000 x 2000	8-37-02900	22557
Chemical Composition, %						
Requirement	Ti-remainder			Residuals, max, %		
	Al	V	Fe	H	Each	Total
AMS 4911L	5,50 - 6,75	3,50 - 4,50	max 0,30	max 0,15	max 0,10	max 0,40
TOP	6,56	4,14	0,19	0,002	<0,10	0,086
BOTTOM	6,49	4,03	0,16	0,003	<0,10	0,083
Heat Treatment						
Requirement	Tensile strength		Elongation		Beta Transus	
	ksi	min	%	min	T °C	Time
AMS 4911L	120	130	10	-	780	3 h
Longitudinal	2 127,3	138,9	13,3	-	air cooling	50 min
Transverse	2 132,5	143,5	14,1	0,0052		

Macrostructure Test N/A  
 Microstructure Test As per AMS 4911L par. 3.5.3.3, 3.5.4.2;  
 material without surface contamination.

Ultrasonic Inspection As per AMS 2631C, Cl. A1, Longitudinal wave.  
 Immersion method. Focused transducer.

We certify that, subject to exceptions or transmittable listed hereafter, the supplies detailed here were manufactured in accordance with the technical specifications of the contract, order or sub-order and that, all production operations and tests, being duly completed, the supplies conform to every respect with the relevant particular specifications, drawings, and relevant standards and regulations in force.  
 In case of any dispute, the reference shall be made to the supplier's contract.  
 specify the reference of concerned goods.

Mercury free  
 Production start-up date: 09.03.2011.



Stamp

Signature

Prepared by: Ustyugova E.V., Mifrokhina O.K.





# INSPECTION REPORT

Forms V656  
Rev. 1  
3 Jan 2011

<b>Alloy:</b> 6AL4V	<b>VSMPO P.O.#:</b> 26491-RM	<b>Inspected By:</b> RN	<b>Date:</b> 8-10-11
<b>Form:</b> PLATE	<b>Length Tol:</b> +0.5 / -0.25	<b>QA Approval:</b> [Signature]	<b>Date:</b> 12-7-11
<b>Size:</b> 2.559 x 39.37 x 78.74	<b>Width / Ø Tol:</b> +0.4375 / -0.25	<b>Thickness (g Tol):</b> +0.125/-0	<b>Invoice #:</b> 756 1570 (2011)

Package#	Heat #	Qty	ID #	Test ID	1/Ø 1	1/Ø 2	Width	Length	AIR
4966	8-37-02900	1	2	2	2.609	2.579	37 1/4	79	A
5049	8-37-02900	1	1	1	2.601	2.612	39 1/4	79	A

**Stencil Markings:** VSMPO TMS 49112 Lot 22557 Heat 8-37-02900 Gage 65.0mm Plate 1

**Visual Inspection:** OK

**Tool ID:** TM-10

**Tool ID:** CAL 33