



" VSMPO-AVISMA Corporation "

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S957.13

INSPECTION CERTIFICATE

EN 10204-3.18 ISO 9002 CERT. No 09 100 96260



date 09.03.2008

Contract : 25002013T00 Annex 1

Purchaser order: #2004-10174 Airbus France PO 1050185

Terms of delivery AMS 03-18-001Iss.2, ABS 5125, AMS 4911N

Dimensions (mm) or Drawing № 65.0 x 1000 x 2000

Heat № 8-21-1478-1

Lot № 20218

CERTIFICATE № 04039Y06C
Purchaser : VSMPO TIRUS GmbH, Deutschland

Quantity/alloy T6AlV
Units 1
Weight, (kg) 583
Condition of delivery Annealed
Object PLATE

Requirement	Titanium									
	Al	V	Fe	C	N ₂	H ₂	O+2N ₂	Y	Re	total
AMS 03-18-001	5.5	3.5	max	max	max	max	max	max	0.10	0.40
AMS 4911N	6.75	4.5	0.30	0.08	0.03	0.0125	0.25	0.0650	<0.10	0.121
TOP	6.44	4.14	0.16	0.028	0.012	0.0010	0.198	<0.001	<0.10	0.124
BOTTOM	6.46	4.14	0.16	0.027	0.012	0.0010	0.198	<0.001	<0.10	0.124

Requirement	0.20% proof stress		Tensile strength		Elongation		Reduction of Area		Beta-transus		In the Part		Heat treatment	
	MPa	MPa	MPa	MPa	%	%	T° C	T° C	Hz	Hz	time	time	time	time
AMS 4911N	872		969		15.0		40.9		1		0.0030		780°	
	912		982		16.7		43.3						3 h	
AMS 03-18-001	871		975		12.0		22.4		6		15		50 min	
	Short-Transverse		Short-Transverse										air cooling	

Macrostructure testing
 Microstructure testing As per AMS 03-18-001 34 grain size # 9.0 par. 30, 3T25, 3T26 by arca 3T28, 3T100 par. 74 (free from alpha-case), AMS 4911N par. 3.5.3.1, 3.5.4.2.
 AMS 4911N par. 3.5.3.1, 3.5.4.2.
 Ultrasonic inspection As per AMS 03-18-000, DIN EN 4050-4, Cl. 3.
 Longitudinal wave, Immersion method.
 Immersion method: Focused transducer.

We certify that, subject to exceptions or reservations listed hereafter, the samples detailed here were manufactured in accordance with the technical specifications of the contract, order or sub-order and list, all inspection operations and tests. Any-20 items completed, the samples comply in every respect with the relevant technical specifications, drawings and standard standards and regulations in force.
 Information particular to the supplier (see page 2)
 state by the reference of operations given:

Material Code "A"
 Nonflatness Code "N"

Prepared by Dushina A.A.
 Name Dushina A.A.

signature

