



VSMPO-AVISMA Corporation

Cert 20542Y21



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INSPECTION CERTIFICATE

Certificate is issued per requirements of EN-10204-3.1

Heat 8-41-11900



Lot 27771-1



CERTIFICATE: 20542Y21

Purchaser: TIRUS INTERNATIONAL SA, Switzerland.

Quality/alloy: GRADES

Date: 26.12.2021

Contract: 28029116TV, Annex 36

Purchaser order: 21-0030601/042836

Terms of delivery: ASTM B 265-20a

Condition of delivery: Annealed

| Sheet # | Units | Weight, (kg) | Object | Dimensions (mm/inch) or Drawing # | Heat # | Lot # | Residuals, % | |
|---|-------|--------------|--------|---|------------|---------|--------------|-------------|
| | | | | | | | each | total |
| 14, 5, 7, 8, 11, 12, 15, 16, 17, 18, 19, 20, 21, 23 | 15 | 549 | Sheet | 3,556 x 914,4 x 2438,4 (.140" x 36" x 96") | 8-41-11900 | 27771-1 | max 0,10 | max 0,40 |
| | | | | | | | <0,0054 | 0,08 |
| | | | | | | | <0,0038 | 0,08 |

| Chemical Composition, % | Ti-remainder | | C | N | Heat treatment conditions | In the Part, % |
|-------------------------|--------------|------|-------|---------|---------------------------|----------------|
| | Al | Fe | | | | |
| Requirement: | 5,50 - | max | max | max | | |
| ASTM B 265-20a | 6,48 | 0,40 | 0,08 | 0,05 | | |
| TOP | 6,32 | 0,20 | 0,011 | <0,0054 | | |
| BOTTOM | 6,32 | 0,22 | 0,006 | <0,0038 | | |

| Requirement: | Tensile strength | Elongation | Bend test | Heat treatment | In the Part, % |
|----------------|------------------|------------|-----------|--|----------------|
| | | | | | |
| ASTM B 265-20a | 828 | 10 | 105° | 788-792 (1450- (1458) air cooling | |
| Longitudinal | 1033 | 13,5 | 105° | | |
| 1 | 1036 | 13,9 | 105° | | 1 |
| 23 | | | | | 0,0032 |

Macrostructure testing: N/A
 Microstructure testing: N/A
 Ultrasonic inspection: N/A

Bend test: pass
 Flatness tolerance per ASTM B 265-20a Tab. 6
 Production start-up date: 01.09.2021

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;

Approved by

Bazhina M.V.

Signature

Stamp

