KAISER ALUMINUM FABRICATED PRODUCTS

Tennalum 309 Industrial Drive Jackson, TN 38301 731-423-2811



CERTIFIED TEST REPORT

https://Online.KaiserAluminum.com

| USTOMER PO NUMBER: CUSTOME | R PART NUMBER: | PRODUCT DESCRIPTION: |
|--------------------------------|----------------|--------------------------------|
| 160056864-1 42448 | | Cold Finished Round |
| AISER ORDER NUMBER: LINE ITEM: | SHIP DATE: | ALLOY: TEMPER: |
| 49252 | 02/18/2022 | 2024 T351 |
| EIGHT SHIPPED: QUANTITY: | B/L NUMBER: | DIAM/DAF/THKNS: WIDTH: LENGTH: |
| 40 lbs. 21 pcs. | 46964 | 1.000 in. 0.000 in. 144.0 in. |
| IIP TO: | | SOLD TO: |
| W Metals, Inc. | | TW Metals, Inc. |
| 7 Englehard Drive | | The Arboretum, Suite 204 |
| onroe TWP, NJ 08831 USA | | 760 Constitution Drive |
| | | Exton, PA 19341 USA |

Test Code: 1000 AC

Actual Physical Properties

| Lot Number | LONG. | LONG. | LONG. | | | | | | ٠. | | | ,. | | • | | · · | <u>.</u> | | | ÷ | | | | · | | |
|------------|-------|-------|--------|-------|----------|---|----|-------|----|------|---|---------|------|-------|----|-----|----------|-----|-----|-----|----|----|----|----|---|---|
| | | | ELONG. | : . · | ·. · | | ٠ | . · . | | · ·. | ٠ | · · · . | ·. : | | | . : | | ٠. | . : | | ٠. | :: | | | | • |
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| 20271938. | 69.7 | 53.9 | 21.0 | ::. | : | · | ٠. | : : | | : | • | · · . | Ť | : : : | ٠. | : : | | ٠. | . : | · - | ٠. | | | | • | • |

Chemical Composition, WT. % (Aluminum Remainder)

| | Fe Cu Mn Mg | | | OTHERS TOTAL | Lot |
|----------------|-----------------|-----------|------|-----------------|------|
| Actual 0.08 0. | 26 4.7 0.75 1.3 | 0.01 0.09 | 0.02 | 2027 | 1938 |
| | 50 4.9 0.9 1.8 | | | 0.15 | |
| Min | 3.8 0.30 1.2 | | | | |

Specifications

ISO 9001, ASTMB211-19, AMS4120S, AMS-QQ-A-225/6B, CPPP-2000 Rev 0 Exc dtd 5/3/21

"MATERIAL HAS BEEN CONTROLLED TO LCS
PER MCL MANUAL F-17 BY TW METALS"
SIGNED DATE 3 16 202



CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp; Quality Manager

John Remidy

Plant Serial: 293443 Kaiser Order Number: 749252

Page 1 of 2

Line Item: 1



Tennalum 309 Industrial Drive Jackson, TN 38301 731-423-2811.



CERTIFIED TEST REPORT

https://Online.KaiserAluminum.com

Miscellaneous Notes

Made in USA

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser. Aluminum in the manufacture of this material. No weld repair. This material was heat treated per AMS 2772, Rev G AS9100D:2016 The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law. This material meets the requirements of T4 temper and of QQ-A-225/6E Amendment 1 (CANCELLED). Material complies with FAR BAA (FAR 52.225-1, Buy American Act-Supplies), DFARS BAA (DFARS 252.225-7001 Buy American Act & Bal of Payments Prog), and FAR TAA (FAR 52.225-5 Trade Agreements). This material is compliant to RoHS 3, European Union Directive 2011/65/EU and 2015/863/EU.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

Plant Serial: 293443 Kaiser Order Number: 749252

Line Item: 1

Page 2 of 2



Certified Test Report TWM001-22-03-07775-1

MNadcap

ACCREDITED

Materiale Testing Laboratories honDestructive Testing



2331 Topaz Drive, Hatfield, PA 19440 TEL: 800-219-9095 • FAX: 800-219-9096

SOLD TO

TW Metals (Cranbury, NJ) The Arboretum - Suite 204 760 Constitution Drive Exton, PA 19341

CUSTOMER P.O. MP60005921

SHIP TO

TW Metals (Cranbury, NJ) 27 Englehard Drive Monroe Township, NJ 08831 ATTN: Kyle Hurst

CERTIFICATION DATE 3/15/2022

SHIP VIA **EMAIL**

DESCRIPTION

Quantity: 1

Item: 42448 🗸

Material: 2024T351 ALUM AMS 4120 🗸

Size: 1.00 Dia x 8,0" L ~

HT: 20271938~

Reference: ST 60034522, MP 60005921, PO 60056864

MLT: United States MFG: United States J SLB/CL: PTZKU 749252 / TG#: 471531A

SEMI-QUANTITATIVE ANALYSIS

APPLICABLE SPECIFICATIONS: AMS 4120S

KEY: C - Conforms NC - Non-Conformance R - Report for Information

RESULT: The material was found to exhibit the composition of AMS 4120S. KEY (C/NC/R)

Date Completed: 3/14/2022

Procedures/Methods: 86-SCA-0, Rev. 23, Direct Reading Atomic Emissions Spectroscopy

"MATERIAL HAS BEEN CONTROLLED TO LCS PER MCL MANUAL F-17 BY TW METALS"

SIGNED



Certified Test Report
TWM001-22-03-07775-1

Accredited by PAI

ACCREDITED

Materials Teeting Laboratories

CHI #2: 17 GE Charley

2331 Topaz Drive, Hatfield, PA 19440 TEL: 800-219-9095 • FAX: 800-219-9096

TENSILE TEST: LONGITUDINAL

APPLICABLE SPECIFICATIONS: AMS 4120S, Temper T351

KEY: C - Conforms NC - Non-Conformance R-Report for Information

| REQUIRED | (ksi) TENSILE STRENGTH Min 62 | (ksi) YIELD STRESS (0.2% OFFSET) Min 45 | (%) ELONGATION IN 2" (MANUAL) Min 10 | FRACTURE LOCATION Report | KEY <u>C/NC/R</u> |
|----------|-------------------------------|---|---|--------------------------------|----------------------|
| ACTUAL | 70.5 | 55.5 | 21 | Middle 50% of GL | (c) |

Date Completed: 3/14/2022

Procedures/Methods: 86-TT-2, Rev. 17, Room Temp. Tensile Test for Metallic Materials

Testing performed in accordance with Pratt & Whitney MCL Manual Section F-23.

The services performed above were done in accordance with LTI's Quality System Program Manual Revision 21 dated 5/1/2019 and within the scope of our ISO/IEC 17025:2017 accreditation. These results relate only to the items tested and this report shall not be reproduced, except in full, without the written approval of Laboratory Testing, Inc. The services provided on this certificate have been performed in conformance with the customer's purchase order requirements. L.T.I. is accredited by Nadcap for NDT and Materials Testing for the test methods and specific services as listed in the Scopes of Accreditation available at www.labtesting.com and www.eAuditNet.com. The results reported on this test report represent the actual attributes of the material tested and indicate full compliance with all applicable specification and contract requirements. This is a shared risk decision rule which the customer also has responsibility for determining acceptance of the results.

MERCURY CONTAMINATION: During the testing and inspection, the product did not come in direct contact with mercury or any of its compounds nor with any mercury containing devices employing a single boundary of containment.

NOTE: The recording of false, fictitious or fraudulent statements or entries on this document may be punishable as a felony under Federal Statutes.

Sherri L. Scheifele QA Specialist

Sherri & Scheifele

Authorized Signature





Packing Slip

ORDER NO.: 60770002 FROM: CRAN

SOLD TO:

SOLD TO:
TW METALS - U K +++ MAJESTIC ROAD

NURSLING ESTATES

SOUTHAMPTON SO16 OAF

UNITED KINGDOM

SALESPERSON: ASHLEY LAVOIE SHIP BY: 10/18/23
TERMS: NET 75 DAYS VIA: CUST. CONSIGNE
F.O.B.: SHIPPING POINT FREIGHT: COLLECT
CUST ORD NO.: B30580243 RELEASE NO.:
RECEIVING PHONE: 011442380739333

CLN#

XXXXX

CUST NUMBER: 7003300 NET WGT: 11.275 REQ.DATE: 10/18/23 CONFIRMED

SHIP TO:

TW METALS, UK MAJESTIC ROAD

NURSLING ESTATES SOUTHAMPTON ENGLAND SO16 OAF

12.0000

WIDTH LENGTH

0001 42448 2024T351 ALUM AMS 4120 LCS 1.00 DIA

ORD QTY INVOICE QTY SHIPPED QTY WT 12.000 EA 12.000 EA 11.275 LB 11.275

WT

PC:

1:

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

LINE ITEM DESCRIPTION

ECCN: 9A991.d Export License: NLR Expiration Date: 0/00/00 PO:60056864 HT:20271938 PC: 12 CUSTOMER QTY: 11.275 UOM LB MLT:UNITED STATES MFG:UNITED STATES SLB/CL:PTZKU 749252

WHEN READY EMAIL DOCUMENTS JENNY.STRINGER@TWMETALS.CO.UK AND TRACEY.WRIGHT@TWMETALS.CO.UK THEY WILL ADVISE SHIPPING

INSTRUCTIONS. ANY DOUBT PLEASE EMAIL

CRIS.RIVERA@TWMETALS.COM OR ASHLEY.LAVOIE@TWMETALS.COM

AREA TYPE OF PKG PKGS GRS WEIGHT WIDTH LENGTH HGH'
CUSTOME REDDICRATE 1.000 15.075 5.5000 18.0000

TWP0000046457

----- PACK INFO -----

CUBIC FT .286

1.000 15.075

CARRIER:

UNLOAD TYPE: PER CUSTOMER SP

DATE SHIPPED

BY: 2450

RT 001-



DATE FILLED

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE THANK YOU FOR THIS ORDER PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.

http://www.twmetals.com/invoice-terms.html





Packing Slip

ORDER NO.: 60770002

FROM: CRAN

PAGE

CUST NUMBER: 7003300 NET WGT:

SOLD TO:

TW METALS - U K +++

MAJESTIC ROAD

NURSLING ESTATES

SOUTHAMPTON SO16 OAF

UNITED KINGDOM

SALESPERSON: TERMS:

F.O.B.:

CUST ORD NO .:

VTA:

FREIGHT:

RELEASE NO.:

XXXXX ASHLEY LAVOIE NET 75 DAYS

SHIPPING POINT

B30580243

CUST. CONSIGNE

COLLECT

RECEIVING PHONE: 011442380739333

11.275 REQ.DATE: 10/18/23 CONFIRMED

SHIP TO:

TW METALS, UK MAJESTIC ROAD

NURSLING ESTATES SOUTHAMPTON ENGLAND

SO16 0AF

SHIP BY:

10/18/23

27 ENGLEHARD DRIVE

MONROE TWP

NJ 08831

"TW Metals SDS data is available on our website at www.twmetals.com. SDS data can be found under the Company Tab, > Compliance/QA, > SDS. If you do not have access to our website, you may call us at 610-458-1300, and we will mail or fax you a copy of our current SDS date to you."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Electronically Generated Certificate-Valid without signature Date: 10/18/23

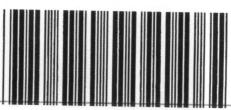
These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.





TW Metals Test Certificates

| TW Purchase Order No: | 30580243 |
|-------------------------------|----------|
| TW Purchase Order Line No: | 0001 |
| Heat No: | 20271938 |



3050263

This barcode is for TW Metals archiving use only





Certificate of Release

Page 1 of 1



TW Metals LTD

Majestic Road, Nursling Estate, Nursling Southampton, Hampshire, SO16 0AF United Kingdom Tel: +44 (0) 23 8073 9333

Specification / Grade / Si

twmetals.co.uk

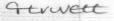
ISO 9001: 2015 / AS9120: Rev B / AS9100: Rev D Registration Number: 0002459 / 0002458 / 0078780

| Customer | Cert Details | |
|---|------------------|-----------|
| A J Walter Aviation Ltd The Headquarters | Release Note No. | 30050700 |
| Maydwell Ävenue Slinfold | Despatch Date | 30/10/23 |
| West Sussex RH13 0AS | Account No. | 3011617 |
| | Your Ref. No. | CPE146940 |

| Specification / Grade / Size | Quantity | Unit | Heat No / Lot No |
|--|-----------|------|---|
| 2024T351 AL AMS 4120 1.00 DIA LENGTH: 304.8000 WIDTH: Part #: Manufacturer: KAISER ALUMINUM MILL PO: B 30580243 LINE 1 | 12.000 | EA | 20271938 Certification Number: M60056864 |
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Comments

Certified that the whole of the supplies hereon, unless otherwise stated, are covered by the source's Certificate of Conformity or Test Certificate referenced, conform in all respects with the contract or order and have been subject to the Quality System requirements in accordance with the conditions of sale



Signed:

For and on behalf of TW Metals Ltd. - Tanya Trivett



Date: 2023-10-30





THESE GOODS ARE SUPPLIED IN ACCORDANCE WITH TW METALS STANDARD

Delivery Note

Page 1 of 2



TERMS AND CONDITIONS

TW Metals LTD

Majestic Road, Nursling Estate, Nursling Southampton, Hampshire, SO16 0AF United Kingdom Tel: +44 (0) 23 8073 9333

twmetals.co.uk

DELIVERY ADDRESS

A J Walter Aviation Ltd

VAT Reg No.: GB188 2846 16

| | CARRIER | VEHICLE NO |
|----------|---------------------|------------|
| | Will Call | |
| INVOICE | DELIVERY REFERENCE | DATE |
| 30050700 | 3011617/30050700 | 30-10-2023 |
| | CUSTOMERS REFERENCE | |

Loaded by

Customer PO: CPE146940 Contact Name: JONATHAN BEST

| A J Walter Aviation Ltd The Headquarters Maydwell Avenue Slinfold West Sussex RH13 0AS TEL NO.: 01403-711777 | | | | | THE SELLER SHALL NOT BE LIABLE IN RESPECT OF ANY CLAIM FOR SHORTAGES OR DAMAGE MADE MORE THAN FIVE DAYS AFTER DELIVERY. CARRIAGE IS PRE- PAID AND CHARGED WHERE APPLICABLE |
|--|---|-------------------|------------------|-------------|---|
| PKGS DESCRIP | TION OF DAMAGE | | | | HEALTH AND SAFETY AT WORK GIVEN ON REQUEST |
| | PTION OF PACKAGES DDI CRATE | LENGTH .4600 | WEIGHT 5 | AREA W/C | VEHICLE REG: |
| | | | | , c | RECEIVED BY: |
| SPORT CONTROL TO | | | | | SIGNATURE: |
| | | | | | PRINT NAME: |
| | | | | | DATE: |
| | ginal Copy | | | | GOODS ARE ONLY CARRIED SUBJECT TO |
| to | e returned TW Metals | | | | CONDITIONS OF CARRIAGE AVAILABLE ON REQUEST |
| QUANTITY UNITS | DESCRIPTION | OF GOODS | | PART NO. | TARRIF CODE |
| 12.000 EA | 2024T351 AL AM 304.8000 TO BE RATED | 1S 4120 1.00 X | DIA | | |
| | | TOTAL KG 5.120 | TOTAL M 3.658 | | |
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| The second secon | | | | | |
| | | | NC | DNE | Attached Documents C OF C NONE |





Delivery Note

Page 2 of 2



TW Metals LTD

Majestic Road, Nursling Estate, Nursling Southampton, Hampshire, SO16 0AF United Kingdom Tel: +44 (0) 23 8073 9333 twmetals.co.uk

VAT Reg No.: GB188 2846 16

CARRIER VEHICLE NO
Will Call
INVOICE DELIVERY REFERENCE DATE
30050700 3011617/30050700 30-10-2023

CUSTOMERS REFERENCE
Customer PO: CPE146940 Contact Name: JONATH

PE146940 Contact Name: JONATHAN BEST

IMPORTANT NOTE FOR FREIGHT AGENTS
Goods are being removed from customs warehouse authorisation U2942291GB.
Exports outside UK use CPC 3171000. An NES entry must be sent to TW Metals.
Failure to comply, will be deemed as acting in an indirect representative and liable for any Duty/VAT/Interest that HM Customs demand from TW Metals.

DELIVERY ADDRESS

A J Walter Aviation Ltd The Headquarters Maydwell Avenue Slinfold West Sussex RH13 0AS TEL NO.: 01403-711777

TERMS AND CONDITIONS

THE SELLER SHALL NOT BE LIABLE IN RESPECT OF ANY CLAIM FOR SHORTAGES OR DAMAGE MADE MORE THAN FIVE DAYS AFTER DELIVERY.

CARRIAGE IS PRE- PAID AND CHARGED WHERE APPLICABLE

HEALTH AND SAFETY AT WORK GIVEN ON REQUEST

| PKGS | DESCRIPTION OF PACKAGES | LENGTH | WEIGHT | AREA | |
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| 1 | REDDI CRATE | .4600 | 5 | W/C | |
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| | Customer | | | | |
| | | | | | GOODS ARE ONLY CARRIED SUBJECT T CONDITIONS OF CARRIAGE AVAILABLE ON REQUEST |
| UANTITY | UNITS DESCRIPTION | N OF GOODS | | 212211 | |
| | -100mm 110 | 11 01 000D3 | | PART NO. | TARRIF CODE |

QUANTITY UNITS

DESCRIPTION OF GOODS

PART NO. TARRIF CODE

12.000 FA

2024T351 AL AMS 4120 1.00 DTA

304.8000 X

TO BE RATED

TOTAL KG
5.120 3.658

Attached Documents
C OF C
NONE

THESE GOODS ARE SUPPLIED IN ACCORDANCE WITH TW METALS STANDARD

A J Walter Aviation Ltd West Sussex RH13 OAS Slinfold Maydwell Avenue The Headquarters

CPE146940

CUSTOMER ORDER NO

CONTACT

JONATHAN BEST 01403-711777

20-10-23 C

30050700 0001

THE SELLER SHALL NOT BE LIABLE IN RESPECT OF ANY CLAIM FOR SHORTAGES OR DAMAGE MADE MORE THAN FIVE DAYS

TW Metals Ltd Majestic Road, Nursling Estate Southampton SO16 0AF In the event of non-delivery Please return to

DELIVERY NOTE NO 30050700 0001

ITEM

유

DATE 26-10-2023

DESCRIPTION ABRBO

2024T351 AL AMS 4120 1.00 DIA

QUANTITY

H/N: 20271938



| Size: | |
|-------------|--|
| Spec/Grade: | |
| Heat No.: | |
| Location: | |
| Quantity: | |

| DATE | SHPD PCS | SHPD MTRS | BAL PCS | BAL MTRS | PULLED BY |
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42448 - 2024T351 ALUM AMS 4120 LCS 1.00 DIA Cus Part Cus PO# SOUTHAMPTON ENGLAND SO16 OAF NURSLING ESTATES MAJESTIC ROAD TW METALS, UK METALS B30580243 60770002 PTZKU 749252 20271938 **Heat Number** Line 8-CUSTOMER CONSIGNED Pulled From G141E Item 42448 12.0000 - Summary Width Length Quantity on This tag SQF S G PCS В ≤ Z 耳 Tag CONFIRMED 471761

11.275

144 12

TW Metals NexGen4.0 Supply Chain Management System

12

5.114 3.658 <u>→</u>