

C225973 1/3

HT# 23401578

Certified Test Report

| | | | | |
|--------------------|----------|--------------|--------------------|-----------------|
| Sales Order Number | Line No. | Customer P/O | Cert Number | Page |
| 1101460107 | 4 | P045361-4 | HYDRO2980837 | 1 of 3 |
| | | | Cert Creation Date | Cert Print Date |
| | | | 29-NOV-18 | 29-NOV-18 |

Hydro Extrusion USA, LLC
 1550 KIRBY LANE
 SPANISH FORK, UT
 84660-1349



Invoice To Customer
 ASA ALLOYS
 DIVISION OF CSM INC
 81 STEINWAY BLVD
 ETOWHOCKE, - M9W 6H6
 Ship To Customer
 ASA ALLOYS
 20 CHALLENGER CRESCENT

SHERWOOD PARK, AB - T8H 2R1

| Quantity Shipped | Date Shipped | Item No. | Item Description | Specification |
|------------------|--------------|----------|--|---|
| 2216 LB | 29-NOV-18 | | ACC-U-LINE Extruded ACC-U-ROD 5.000 DIA +/- .017 SECT 303296 144.000 IN LN | ASTM B221 REV 14 Table 1 Chemical Composition Limits Table 2 Mechanical Property Limits |
| B/L | | | FIN M-MILL W/F 23.091 F 1 CS 5 6061/76511H | ASME SB 221 REV 17 Table 1 Chemical Composition Limits Table 2 Mechanical Properties Limits |
| 976025 | G03305804 | | | AMS QQ-A-200/8 REV A |
| Delivery Id | Item No. Rev | | | |
| 5056114 | | | | |
| CustomerPart No. | | | | |
| 5ER+ | | | | |

Applicable Specifications, Revisions and Exceptions

Melted in the USA or a qualifying country, as identified in the Buy American Act (DFARS 252.225-7001)

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

| | |
|---|---|
| Hydro Extrusion USA, LLC hereby certifies that the extrusions covered in this report are within the acceptable ranges of the specification tables identified herein (excluding footnotes). Chemical composition may be based on results provided by external billet suppliers. Further information on processing, testing including ASTM B557, and inspection is available at www.hydroextrusions.com/industriespecifications . Sales are governed by the Extrusion North America Standard Terms and Conditions of Sale available at www.hydroextrusions.com/termsconditions , unless otherwise mutually agreed in writing. | Signature And Title Steven Tanner Quality Manager |
|---|---|

| Package Number | Lot Number | Quantity | UOM | Weight | |
|----------------|------------|----------|-----|--------|------|
| | | | | Gross | Net |
| G14-PKG2133771 | 23401578 | 4 | PCS | 1114 | 1108 |
| G14-PKG2133772 | 23401578 | 4 | PCS | 1114 | 1108 |

Composition Limits

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| Alloy | Si | | Fe | | Cu | | Mn | | Mg | | Cr | | Zn | |
|-------|------|------|-------------|------|--------------|------|---------|------|---------|------|---------|------|---------|------|
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 6061 | 0.40 | 0.80 | --- | 0.70 | 0.15 | 0.40 | --- | 0.15 | 0.80 | 1.20 | 0.04 | 0.35 | --- | 0.25 |
| Alloy | Ti | | Others Each | | Others Total | | PCT (%) | | PCT (%) | | PCT (%) | | PCT (%) | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 6061 | --- | 0.15 | --- | 0.05 | --- | 0.15 | --- | 0.15 | 0.80 | 1.20 | 0.04 | 0.35 | --- | 0.25 |

Composition Results

| Heat / Cast | Si | Fe | Cu | Mn | Mg | Cr | Ti | Zn | Others Each | Others Total |
|-------------|------|------|------|------|------|------|------|------|-------------|--------------|
| S18101601 | 0.74 | 0.44 | 0.29 | 0.10 | 0.88 | 0.13 | 0.03 | 0.12 | --- | --- |
| S18101603 | 0.75 | 0.38 | 0.28 | 0.10 | 0.91 | 0.14 | 0.02 | 0.13 | --- | --- |
| S18101607 | 0.75 | 0.43 | 0.30 | 0.11 | 0.89 | 0.13 | 0.03 | 0.13 | --- | --- |
| S18110302 | 0.78 | 0.43 | 0.29 | 0.11 | 0.90 | 0.14 | 0.03 | 0.09 | --- | --- |

Mechanical Property - Test Limits

| Test Temper | Lot Number | # of Tests | UTS - L | | TYS - L | | EL 4D-Long | |
|-------------|------------|------------|-----------|-----------|-----------|-----------|------------|-----------|
| | | | MIN Value | MAX Value | MIN Value | MAX Value | MIN Value | MAX Value |
| T631 III | 23401578 | 1 | 54.5 | 54.5 | 50.9 | 50.9 | 11.0 | 11.0 |

Notes

For U.S. Government sales: Items supplied are compliant with the Buy American Act, FAR 52.225-1, and DFARS 252.225-7001.

Melted and manufactured in the USA.

Mercury is not a normal contaminant in aluminum alloys and we do not knowingly use it in the manufacture of our goods.

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84660-1349



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