

<b>SHIP TO:</b> GENSER AEROSPACE & IT PVT LTD % NAVIO SHIPPING PVT LTD % AMASS GLOBAL NETWORK,STE 255 13191 CROSSROADS PKWY NORTH CITY OF INDUSTRY, CA 91746
<b>SOLD TO:</b> GENSER AEROSPACE & IT PVT LTD 64 PALACE ROAD VASANTH NAGAR KARNATAKA BENGALURU, IN 5600562



**Trentwood Works**  
**PO Box 15108, Spokane Valley WA 99215-5108**  
**15000 E Euclid, Spokane Valley WA 99216**  
**Phone: (800) 367-2586**

## CERTIFIED TEST REPORT

**Serial Number**

4655470

CUSTOMER PO NUMBER: GNS/DS/KAISER/GX/F20-2		WORK PACKAGE:		CUSTOMER PART NUMBER:		SHIP RUN/LOAD: 200210/14		GOV'T CONTRACT NUMBER:	
KAISER ORDER NO: 1325580-3		SHIP DATE: 28-JUL-2021		ALLOY: 2024	CLAD: BARE	TEMPER: T351		PRODUCT DESCRIPTION: Sawed Plate	
WEIGHT SHIPPED: 4417.13 KG (9738 LB)	QUANTITY: 3 PCS EST.		TRUCK B/L #: 2094046		GAUGE: 60.0000 MM ( 2.3620 IN)		DIAMETER/WIDTH: 1320.0 MM ( 51.970 IN)		LENGTH: 6590.0 MM (259.450 IN)

MHU 2505723: LOT 390279B8: 1 pieces;  
 MHU 2505726: LOT 390279B8: 1 pieces;  
 MHU 2505730: LOT 388496B2: 1 pieces;

### Certified Specifications

AMS 4037/RevR  
 ASTM B209/B209M/Rev21  
 BSS 7055/RevB  
 GAMPS 9101/RevB/AmdSCN1

AMS-QQ-A-250/4/RevB  
 ASTM B 594/Rev19/AmdE1  
 CSTI 006/RevE  
 GSS16100/RevG/Amd1

AMS-STD-2154/RevD  
 BAC 5439/RevJ  
 DPS 4.713/RevAK  
 PS 21211/RevP

#### Test Code: 1504

**Lot: 388496B2 Cast 700**

**Drop 34**

#### Test Results

**Ingot 1**

**Melted in USA**

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T351	LT / 2 (Min:Max)	66.9 : 67.3 (461 : 464)	47.7 : 48.1 (329 : 332)	15.8 : 17.4

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.06	0.12	4.7	0.55	1.3	0.00	0.17	0.02	0.01	0.00	TOT 0.02
<b>Lot: 390279B8</b>	<b>Cast 700</b>	<b>Drop 09</b>	<b>Ingot 4</b>	<b>Melted in USA</b>							

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T351	LT / 2 (Min:Max)	67.2 : 67.6 (463 : 466)	47.5 : 48.2 (328 : 332)	15.1 : 15.2

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.06	0.11	4.7	0.56	1.4	0.00	0.14	0.02	0.01	0.00	TOT 0.02



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### ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024												
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15

### Aluminum Remainder

### TEST NOTES

Metal represented by this test report was 100% Type I  
(immersion) ultrasonically tested from one side with 3mm  
dead zones top and bottom and meets the Class A and Class B  
requirements of all specifications referenced on this test  
report. No surface marking of sonic indications is  
performed.

### CERTIFICATION

Kaiser Aluminum (Trentwood Works) has a Quality Management System in compliance with ISO 9001, AS9100, and ISO 14001. All material shipped under this order:  
\* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. All test equipment and measuring devices are calibrated and certified in accordance with applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.  
\* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.  
\* has been thermally processed in compliance with AMS 2772, where applicable.  
\* is mercury free, within the limits of detection of ASTM E1251 (<1ppm).  
\* is free of weld repair.  
\* meets the reporting requirements of EN10204, Type 3.1.

For additional information (Nadcap certifications, Safety Data Sheets, RoHS, REACH, Conflict Minerals, etc.), refer to Kaiser's corporate website at [www.kaiseraluminum.com](http://www.kaiseraluminum.com).

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Michael Peske, PT Lab Process Engineer