

MILL TEST REPORT

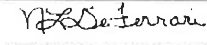
Customer: ROLTEM Company: ROLLED ALLOYS-TEMPERANCE
 MTR# ATCL/ATCL03594.pdf PO# 8246218-HOU SO# LQZZW5
 Item: 1.2507224015-SPH#1 Bundle: CG63255 Heatno: 863891-06

TA CHEN INTERNATIONAL, INC.

www.tachen.com

This MTR contains: 4 pages (Page: 1)

ATCL03594

 ATI Specialty Rolled Products 500 Green Street Washington, PA 15301	Certificate of Test		 V. DeFerrari Director, International - Sr. Manager, Quality
	Mill Information Cert Number: 0232360-00 Sales Order: 50-062-208 Cert Date: OCT-19-2022	Customer Information Name: TA CHEN INTERNATIONAL, INC. PO: LA4900 PO Date: Jun-14-2022	

Sold to: TA CHEN INTERNATIONAL, INC.
 5855 OBISPO AVENUE
 LONG BEACH, CA 90805

Ship to: TA CHEN INTERNATIONAL, INC.
 8500 109TH STREET
 PLEASANT PRAIRIE, WI 53158

Material Information

"ATI 15-5" PRECIPITATION HARDENABLE STAINLESS STEEL
 PMP HOT ROLLED PLATE ANNEALED PICKLED COMMERCIAL CUT EDGE

AMS-STD-2154E TYPE 1 CLASS A	ASQR-01 REV 11
ASTM-A-693-16 S15500 CND A/H900	BMS7-240J TYPE 1
AMS 5862M TYPE 2 CND A/H900	S-SPEC-1, S-1000 DATED 03/30/21
S-SPEC-35 S-400 DATED 8-1-19	ASME-SA-693-21 CND A/H900
UNS S15500	BAC 5439 REV J CLASS A TYPE 1
BSS7055 REV B CLASS A TYPE 1	

Piece Information

	Gauge	Width	Length				Total Wt
Pcs	(in)	(in)	(in)	Heat #	Piece ID	Section Id	Lot #
Item: 008	Cust-Id: 1.2507224015-SPH#1/A	Govt-Contract-#:		Govt-DO-Rating:			
	Cust-Job:	ScheduleB:					
1	1.2500	72.0000	240.0000	863891-06	CG63255	---	515715 6360

Chemistry Testing

Element (wt %)	Requirements		Final Heat Analysis	
	Min	Max	863891-06	Loc
C	---	.07	.04	TC
MN	---	1.00	.71	TC
P	---	.030	.023	TC
S	---	.015	< .001	TC
SI	---	1.00	.31	TC
CR	14.00	15.50	14.68	TC
NI	3.50	5.50	4.69	TC
MO	---	.50	.30	TC
CU	2.50	4.50	3.24	TC
CB	.15	.45	.28	TC
TA	---	---	.0100	TC
CTC	5.00	---	6.91	XX
CBT	.15	.45	.29	XX

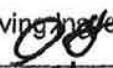
HEAT # 863891-06



TRACER # 0759200US



Receiving Inspection

By: 

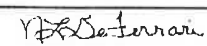
Date: 5/21/24

MILL TEST REPORT

Customer: ROLTEM Company: ROLLED ALLOYS-TEMPERANCE
 MTR# ATCL/ATCL03884.pdf PO# 0240218-HOU SO# LQZZW6
 Item: 1.2507224015-SPH#1 Bundle: CG83255 Heat# 863891-06

TA CHEN INTERNATIONAL, INC.
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This MTR contains: 4 pages (Page: 2)

 ATI Specialty Rolled Products 500 Green Street Washington, PA 15301	Certificate of Test		 Matteo Dall'Acqua - Sr. Manager, Quality
	Mill Information Cert Number 0232360-00 Sales Order 50-062-208 Cert Date Oct-19-2022	Customer Information Name TA CHEN INTERNATIONAL, INC PO LA4900 PO Date Jun-14-2022	

Chemistry Testing

Element (wt %)	Requirements		Final Heat Analysis	
	Min	Max	863891-06	Loc
CBC	5.00	---	6.67	XX

ATI Flat Rolled Products performs chemical analysis by the following techniques for testing locations IC, UN, & LO: C & S by combustion/infrared absorption per ASTM E1019; N & O by inert fusion/thermal conductivity per ASTM E1019; Mn, P, Si, Cr, Ni, Mo, Cu, Cb(Nb), Co, V, W by WDXRF per ASTM E572; Pb, Bi, Ag, Se, S b by GFAA per ASTM E1184; Al and Ti (>=0.10%) by WDXRF per ASTM E572 otherwise by OES per ASTM E1086; TA, Zn, Mg, Cd, Ca, Zr, La by ICP per ASTM E1479.

86389106 - Material was produced by EF melting, AOD refining, and ESR.
 USA melt and manufacture
 Material melted at ATI FRP Brackenridge (FRPB)

FRPB - ATI FRP BRACKENRIDGE 100 River Road Brackenridge, PA 15014

CBC = Cb / C

CBT = Cb + Ta

CTC = (Cb + Ta) / C

Mechanical Testing

		LOT 515715		LOT 515715	
Condition:		ANNEALED		H900	
Direction:		TRANSVERSE		TRANSVERSE	
Temperature:		ROOM TEMP		ROOM TEMP	
Spec:					
Test Limit	Units	Result	Loc	Result	Loc
HARDNESS	---	317. HBW	TC	41. HRC	TC
Y8 0.2% OFFSET	psi	---	---	174000.	TC
TENSILE	psi	---	---	197600.	TC
ELONG. IN 2"	%	---	---	14.	TC
RED OF AREA	%	---	---	58.	TC

When hardness is measured using the Brinell scale, the indentation measuring device is Type A.

"H", "TW", "RH", and other heat treated values are capability test results.

HEAT # 863891-06



TRACER # 0759200US

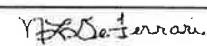
MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

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Customer: ROLTEM Company: ROLLED ALLOYS-TEMPERANCE
 MTR# ATCL/ATCL03594.pdf PO# 0246218-HOU SO# LQZZW5
 Item: 1.2507224015-SPH#1 Bundle: CG63255 Heatno: 883591-06

www.tachen.com

 ATI Specialty Rolled Products 500 Green Street Washington, PA 15301	Certificate of Test		 Y. DeFerrari Director, Sales & Marketing
	Mill Information Cert Number: 0232360-00 Sales Order: 50-062-208 Cert Date: OCT-19-2022	Customer Information Name: TA CHEN INTERNATIONAL, INC PO: LA4900 Date: JUN-14-2022	

Mechanical Property Requirements

Condition:		ANNEALED		H900	
Direction:		TRANSVERSE		TRANSVERSE	
Temperature:		ROOM TEMP		ROOM TEMP	
Spec:					
Test Limit	Units	Min	Max	Min	Max
YS0.2% OFFSET	psi	---	---	170000,	---
TENSILE	psi	---	---	190000,	---
ELONG. IN 2"	%	---	---	10,	---
RED OF AREA	%	---	---	35,	---
HARDNESS	---	---	352, HBW	40, HRC	47, HRC

Other Testing

Test ID	Result Name	Result	Units	Loc	Requirements
#63891 HEAT	MP FREQUENCY	.00		PE	.25 max
#63891 HEAT	MP SEVERITY	.00		PE	.50 max

Certification Statements

UT report 48050 for CG63255 is attached.

Grade verification was performed spectroscopically.

Steel cleanliness, premium aircraft-quality mag particle (MP) inspection severity (rating per square inch) and frequency (count per square inch) was tested and reported per the requirements of AMS 2300 as modified by ATI's exception letter.

EN 10204:2005 - 3.1 Certificate does not imply that material is an approved PED grade. For a complete listing of approved PED grades, visit our website at www.atimaterials.com.

ATI-FRP defines the Grain Orientation Nomenclature as Longitudinal (L) is the Length, Long Transverse (LT) is the width, and Short Transverse (ST) is the thickness or gauge.

Material was solution annealed at 1900 +/- 25F (1038 +/- 14C) for a time commensurate with thickness and cooled to below 90F (32C).

ATI Flat Rolled Products has complied with all producer requirements of AS6279.

Material was solution annealed at 1900F (1038C) minimum for a time commensurate with thickness and rapidly cooled with air or water.

ATI Flat Rolled Products does not use mercury in the testing or production of its products.

No welds/weld repairs performed.

Material tested at ATI Flat Rolled Products GEAB 5400 approved facilities (T1225 & T9317): Natrona Heights, PA; Brackenridge, PA and New Bedford, MA.

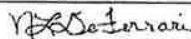
MILL TEST REPORT

Customer: ROLTEM Company: ROLLED ALLOYS- TEMPERANCE
 MTR# ATCL/ATCL03584.pdf PO# 0246218-HOU SO# LQZZW6
 Item: 1.2507224015-SPH#1 Bundle: CG63253 HeatNo: 863891-06

TA CHEN INTERNATIONAL, INC.

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 ATI Specialty Rolled Products 500 Green Street Washington, PA 15301	Certificate of Test  Business Development - No. Messages, Quality	
	Mill Information Cert Number 0232360-00 Sales Order 50-062-208 Cert Date OCT-19-2022	Customer Information Name TA CHEN INTERNATIONAL, INC PO LA4900 PO Date JUN-14-2022

Certification Statements

ATI Flat Rolled Products holds several quality and Laboratory Certifications that include ISO-9001, AS9100, AD 2000-Merkblatt W0, EU Pressure Equipment Directive 14/68/EU, Nadcap, ISO/IEC 17025, GEAE S400 (T1225 & T9317), GEAE S-1000. Refer to www.ATIMaterials.com to access the current ATI-FRP quality certifications.

The following test methods are used by the listed lab: ASTM E8 for all specimens for yield, tensile, and elongation except ISO 6892-1 for 80mm specimens; ASTM E290 for bend (For New Bedford Laboratory - type 2 Free bend is used); ASTM E112 for grain size; ASTM E10, E18, E92, & E384 for hardness; ASME B46.1 Section3 for surface roughness; AMS 2750 for laboratory heat treatment; ASTM E139 for stress rupture; ASTM E29 for rounding; ASTM E3 and E407 for metallographic preparation and etching.

ATI FRP products have not come in contact with radioactive materials during manufacturing or processing.

EN 10204:2005 3.1 Certificate.

General Statements

The Finishing Location for ALL PIECES is ATI-FRP
 The Shipping Location is ATI-FRP MONACA, PA

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS

PE = PRODUCT EVALUATION SYSTEMS; 637 Donohoe Road; Latrobe, PA 15650
 TC = ATI FRP Natrona Heights; 1300 Pacific Avenue; Natrona Heights, PA 15065
 XX = CALCULATED

Knowingly and willfully recording any false, fictitious or fraudulent statement or entry on this document may be punished as a felony under Federal statutes, including Federal Law, Title 18, Chapter 47.

WARNING: Processing that makes fumes, dust, or solutions may cause lung disease. Please see Safety Data Sheet for further information which has been supplied to your Purchasing Department. For an additional copy, please refer to our website at: www.atimaterials.com/products/ati-sds

For access to online Certifications of Test, please register at MyATI.ATIMaterials.com.

This Certified Material Test Report is a true representation of the data on file. The reported results conform to the sales contract and specification(s) as set forth in ATI Flat Rolled Products order acknowledgement. This Certificate of Test may not be reproduced except in full without the written authorization of the company.

ATI Flat Rolled Products website contains listing of material produced, general technical and contact information, and current quality and company accreditations including but not limited to ISO-9001, AS-9100, Nadcap, and ISO/IEC 17025. Please visit us at www.atimaterials.com.