McMASTER-CARR®

Certificate

330-995-5500
330-995-9600 (fax)
cle.sales@mcmaster.com

Purchase Order	Order Date	Placed By	McMaster-Carr Number	Number of Certificates
P1556915	11/17/2025	Jonathan Wood	6849864-01	1

Line		Product	Ordered	Status	Certificate
2	99040A414	18-8 Stainless Steel Shims, 3/16" ID x 1/4" OD, 0.014" Thick	1 pack	1 pack delivers November 18	281–9025

Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

Sales Order Number: 448050
Lot #: 200210-PPO MFG Lot #: 863436, 863555
Finished Product Code: Z9774
Finished Description: (25/PACK) 3/16 Inner Race Shim 188/193 X 245/255 X .014 (013/017) 18-8 SS

Our Order 24887-1-1 Your Order NY060494 Packing List 67580-1 (4/21/2022) Image 5591 (4/21/2022)

NOTICE OF SHIPMENT/ PACKING LIST

ATI Flat Rolled Products

CERTIFICATE OF TEST

MI-2707 SC	02/18/21	877677	VANDERGRIFT, PA	483048	130201031230000	30-021-472	04/16/22
	MG BILL	1518689	1335-0	31		1.10 VANDERGRIFT	PA	653974

SOLD TO
TEMPERED & SPECIALTY METALS
AKA ICT STAINLESS STEEL INC
6300 NINETEEN MILE ROAD
STERLING HEIGHTS MI 48314

MAINE SEL.
DEO DSO
10

SHIP TO
TEMPERED AND SPECIALTY METALS
6305 NINETEEN MILE RD
STERLING HEIGHTS MI 48314

GRADE AND SPECIFICATIONS
"ATI 301" STAINLESS STEEL SHEET C R COILS ANNEALED 2D PLA MILL EDGE (ASTM-A-480-20A) (UNS S30100) (AMS 5901C) (ASTM-A-666-15) (ASTM-A-240-20A)

CARRIER - PIERCE, D. TRANSF., INC.

ITEM	PCS	DIMENSIONS W/G/L	HEAT #	COIL #	TEST #	GROSS	TARE	NET	THEO	PAC #	CO SEQ #
001	1	49./.0205/4065.	863436	AAD602B9-BA	6886987	13770		13770		740921	
	1	49./.0205/4111.	863436	AAD602M9-BB	6886987	14020		14020		740924	
C CUST IDENTITY 3012D0206843ME											
	2	COILS				27790		27790			

DIST: EMAIL INVOICE & PDF TO SCHU@TEMPEREDMETALS.COM

TYPE HEAT/TEST (WT %)	-C-	-MN-	-P-	-S-	-SI-	-CR-	-NI-	-MO-	-CU-	-N-
HEAT 863436	.10	1.77	.033	.0001	.47	17.18	6.53	.38	.71	.04
TEST LOCATION	BN	BN	BN	BN	BN	BN	BN	BN	BN	BN

ITEM	TEST NO	YIELD PSI *	TENSILE PSI	% ELONG IN 2"	% R/A	HARDNESS	MEASURED	BEND	CORROSION	ASTM GRAIN SIZE
001	6886987	T 40800.	105300	62. #	NR	77.HRBW	(83.HR15TW)	T PASS	NR	NR
		T 55200.	114900	59. #		88.HRBW	(87.HR15TW)			
TEST LOCATION		TC	TC	TC		TC	TC		TC	

* Y.S. BY 0.2% OFFSET METHOD
# ELONG AT FRACTURE

NR = DATA NOT REQUIRED
GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY

ATI FLAT ROLLED PRODUCTS DOES NOT USE MERCURY IN THE TESTING OR PRODUCTION OF ITS PRODUCTS.

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CONSIGNEE: Please note: Ship only grades and sizes listed on this C of T. If you receive other material, please segregate and contact us immediately for disposition. Any claims for shortages or shipment errors must be received within 5 days of receipt. Claims for damage in transit must be made to the carrier.

WARNING: Safety Data Sheets for the products are available on our website, www.ATImaterials.com. It is the responsibility of the Safety Data Sheet for the grade of material and shall be performed prior to working with the product and all others. Health conditions may be affected by exposure.

The above is a true copy of data received by me. The material and tests contained herein are correct as contained in the records of ATI Flat Rolled Products. Date and authorized signature

Sales Order Number: 448050
Lot #: 200210-PPO MFG Lot #: 863436, 863555
Finished Product Code: Z9774
Finished Description: (25/PACK) 3/16 Inner Race Shim 188/193 X 245/255 X .014 (013/017) 18-8 SS

Our Order 24887-1-1 Your Order NY050494 Packing List 87590-1 (4/21/2022) Image 5591 (4/21/2022)

NOTICE OF SHIPMENT/ PACKING LIST

ATI Flat Rolled Products

CERTIFICATE OF TEST

XI 2302-SC		02/18/22	877677	VANDERGRIFT, PA	483296	13020100312 0000	SC CQ1	172	01
QUAD	SHT	SEQ	NG BILL						
			L518689	13351-0	31		1110 VANDERGRIFT		

SOLD TO
TEMPERED & SPECIALTY METALS
AKA TCT STAINLESS STEEL INC
6300 NINETEEN MILE ROAD
STERLING HEIGHTS MI 48311

PRIME SEC.
DSO DSO
10

SHIP TO
TEMPERED AND SPECIALTY METALS
6300 NINETEEN MILE RD
STERLING HEIGHTS MI 48314

GRADE
"ATI 301" STAINLESS STEEL SHEET C R COILS ANNEALED 2D PIN MILL EDGE

CARRIER PIERCE D. TRANSP., INC.

MATERIAL IS OF USA MELT AND MANUFACTURE.

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 ROUND 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 SECTIONS 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 FLAT ROLLED PRODUCTS PERFORMS CHEMICAL ANALYSIS BY FOLLOWING TECHNIQUES FOR TESTING LOCATIONS NC, IN, &|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 BY GFAA PER ASTM E1184; AL AND TI (>=0.10%) BY WDXRF PER ASTME572 OTHERWISE BY OES PER ASTM E1086; TA BY ICP PER ASTM E1479.

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.ATIMETALS.COM.

THESE COMMODITIES OR TECHNOLOGY, WHEN EXPORTED FROM THE UNITED STATES, ARE IN ACCORDANCE WITH THE USA EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW IS PROHIBITED. U.S. LAW ALSO PROHIBITS DISPOSITION OF THESE COMMODITIES/TECHNICAL DATA TO ANY END-USER OR FOR ANY END-USE RELATED TO THE DESIGN, DEVELOPMENT, PRODUCTION, STOCKPILING, OR USE OF CHEMICAL, BIOLOGICAL, OR NUCLEAR WEAPONS, OR MISSILES, WITHOUT THE PROPER APPROVAL OF THE UNITED STATES GOVERNMENT.

THE HARDNESS CONVERSION WAS PERFORMED USING EQUATIONS GIVEN IN ASTM E140 DEVELOPED FROM DATA IN TABLES 1, 2, 3, 5, AND 6. THE PARTICULAR EQUATION USED WAS BASED ON MATERIAL TYPE AND MEASURED HARDNESS SCALE. PER ASTM E140: THE CONVERSION VALUES ARE ONLY APPROXIMATE AND MAY BE INACCURATE FOR SPECIFIC APPLICATION.

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Warning

The above is a true copy of data on file. The material and test results contained in the above described and specification were produced at ATI Flat Rolled Products Duluth, GA in accordance with

The above described product was manufactured, sampled, tested and inspected in accordance with the required specification, including any supplementary requirements or other requirements designated in the purchase order or contract and were found to meet those requirements.