

SN 6425 12 FOE65 ID 10.375 DF



575 STATE FAIR BLVD.
SOLVAY, NY 13209

Certificate of Test

Cert Date: 02/28/23

REVISED COPY ORIGINAL SENT 10/13/21

M172898 LC01543

S O P
L 190 KELLY RD.
D QUAKERTOWN, PA 18951-9001

S H I P
T O P
PENN STAINLESS PRODUCTS INC
190 KELLY RD.
QUAKERTOWN, PA 18951-9001

CIL ORDER NO.
P5-12325-1-01

HEAT NO.
A14237

CIL INSIDE SALES REP.
E JONES

SHIPPED FROM
SOLVAY, NY USA

CUSTOMER P.O.
P052584

CUSTOMER PART NO.

QUANTITY SHIPPED 5890 LBS.

ALL MELTING DONE IN USA.

DESCRIPTION OF MATERIAL

CRU321 RT ANN FORGED SIZE 16.000 RD
AMS-5645-S ASME SA-182-19ED SEC II PART A (CHEM&MECH) ASME SA-479-19ED SEC II PART A
ASTM-A182-19 (CHEM & MECH) ASTM-A193-17 GR B8T (T 321) ASTM-A276-17
ASTM-A479-20 ASTM-A484-20A QQ-S-763-F UNS S32100 NACE MR0175/ISO 15156-3 2ND ED 2009-10-15
NACE MR0103-2010

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO	CO	CU	N	TI
.048	1.51	.030	.004	.40	9.25	17.31	.42	.14	.37	.012	.474

AS SHIPPED PROPERTIES

HARDNESS

BHN 142

LONGITUDINAL

TENSILE PSI 78,660

YLD. 2% PSI 43,380

% ELONG4D 58.7

RED/AREA% 74.6

MACRO/SONIC ACCEPTABLE

MICRO ACCEPTABLE

GRAIN SIZE #3.0

THE REQUIREMENTS OF ASTM A262 PRACTICE E HAVE BEEN SATISFIED.

AS SHIPPED MATERIAL CONDITION

MATERIAL WAS ANNEALED BY HEATING TO 2000 DEG. F. FOR A SUFFICIENT TIME TO DISSOLVE RESIDUAL CARBIDES AND QUENCHED IN WATER.

THANK YOU FOR SELECTING A QUALITY PRODUCT OF NAFTA ORIGIN MANUFACTURED WITH PRIDE AT CRUCIBLE INDUSTRIES, LLC LOCATED IN SOLVAY, NY USA IN COMPLIANCE WITH FAR 52.255-1 AND FAR 52.225-5. WE PROVIDE MATERIAL FREE OF MERCURY CONTAMINATION AND RATIONS. NO WELD REPAIR IS DONE. CRUCIBLE INDUSTRIES LLC HOLD A CERTIFICATE OF REGISTRATION TO AS9100D/EN 9100:2016 / JISQ 9100:2016, ISO 9001:2015 - ANSI/ISO/ASQ Q9001-2015, PRESSURE EQUIPMENT DIRECTIVE (PED) ANNEX I, PARAGRAPH 4.3 of 2014/68/EU or 97/23/EC 7/2. WE WORK UNDER THE GUIDELINES OF ASME SECTION III SUBSECTION NCA-3850. WE ARE COMPLIANT WITH ROHS DIRECTIVE 2011/65/EU, REACH (EC 1907/2006), EN 10204:2004 3.1, AND DFARS 252.225.7001, 7002, 7008, 7009, 7014 ALTERNATE 1. MATERIAL TESTING IS PERFORMED ON A PROLONGATION OF THE BAR IN COMPLIANCE WITH INDUSTRY STANDARDS ASTM A370, E8, E10, E18, E23, E45, E112, E381, E604. *ACCREDITED CHEMICAL TESTING IS PERFORMED IN COMPLIANCE WITH INDUSTRY STANDARDS ASTM E572, E1019, E1086, E322, E415 AND E1085. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL STATUTES, INCLUDING FEDERAL LAW TITLE 18, CHAPTER 47. PRODUCTS, TECHNICAL DATA, TECHNOLOGY AND SERVICES OF CRUCIBLE INDUSTRIES LLC ARE SUBJECT TO US EXPORT CONTROLS UNDER THE APPLICABLE LAWS AND REGULATIONS OF THE UNITED STATES. CRUCIBLE HAS COMPLIED WITH ALL PRODUCER REQUIREMENTS OF AS6279.

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THE ABOVE MATERIAL WAS MANUFACTURED AND TESTED ACCORDANCE WITH ABOVE SPECIFICATIONS AND IS IN CONFORMANCE WITH THE SPECIFICATION REQUIREMENTS
CRUCIBLE INDUSTRIES LLC

ROBERT TSCHERNJAWSKI - SPECIFICATION EXAMINER

Provided by CPA

www.flowconditioner.com,info@cpacl.ca