

77099804
LA41661

Certificate of Test

Cert Date: 1/15/18



S O L D T O	PENN STAINLESS PRODUCTS INC 190 KELLY RD. QUAKERTOWN, PA 18951-9001	S H I P T O	PENN STAINLESS PRODUCTS INC 190 KELLY RD. QUAKERTOWN, PA 18951-9001	CIL ORDER NO. P5-13084-7-01
				HEAT NO. A13630
CIL INSIDE SALES REP. E JONES		SHIPPED FROM SOLVAY, NY USA		CUSTOMER P.O. P030252
QUANTITY SHIPPED 17166 LBS.		ALL MELTING DONE IN USA.		

DESCRIPTION OF MATERIAL

SIZE
CRU 316/316L RT A 22.000 RD
AMS-5648-L AMS-5653-H ASME SA-182-13ED (CHEM&MECH) ASME SA-479-13ED
ASTM-A182-16 (CHEM & MECH) * ASTM-A262-15 PRACTICE A/E ASTM-A276-16A
ASTM-A479-17 ASTM-A484-16 NACE MRC175/ISO 15156-3 SECOND EDITION 2009-10-15
QQS-763F UNS S31600/S31603

CHEMICAL ANALYSIS *

C	MN	P	S	SI	NI	CR	MO	CO	CU	N
.018	1.78	.022	.026	.40	10.18	16.60	2.07	.09	.16	.078

AS SHIPPED PROPERTIES

HARDNESS
BHN 160

LONGITUDINAL

TENSILE PSI 79,950 SONIC/MACRO ACCEPTABLE GRAIN SIZE 3.5
YLD. 2% PSI 42,330
% ELONG4D 55.3
RED/AREA% 73.1

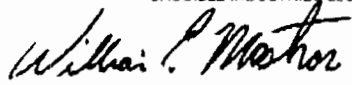
THE REQUIREMENTS OF ASTM A262 PRACTICE E HAVE BEEN SATISFIED.

AS SHIPPED MATERIAL CONDITION

MATERIAL ANNEALED AT 1950 DEG. F. - HELD 30 MINUTES AT TEMP-WATER QUENCHED.

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 RADIATION. NO WELD REPAIR IS DONE. CRUCIBLE INDUSTRIES LLC HOLDS A CERTIFICATE OF REGISTRATION TO ISO 9001:2015, PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC 7/2 ANNEX 1, PARAGRAPH 4.3 AND WORKS UNDER THE GUIDELINES OF NCA 3800 USING QP MANUAL DATED 2/3/17. WE ARE COMPLIANT WITH EU DIRECTIVE 2011/65/EU (ROHS), REACH, LN 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 PUNISHED 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 U.S. EXPORT CONTROLS UNDER THE APPLICABLE LAWS AND REGULATIONS OF THE UNITED STATES.


ROBERT TSCHERNJAWSKI - SPECIFICATION EXAMINER


WILLIAM MASTROE - MANAGER OF QUALITY AND PROCESS ENGINEERING

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