



**NORTH AMERICAN  
STAINLESS**

**METALLURGICAL TEST REPORT**

6870 Highway 42 East  
Ghent, KY 41045-9615  
(502) 347-6000

Certificate: 817902 07    Mail To:    Ship To:    Date: 3/12/2013    Page: 1 Of 1  
 KYERSON, INC.    KYERSON, INC.    Steel: 303  
 ACCOUNTS PAYABLE DEPARTMENT    1085 PEACE ROAD    Finish: Cold Finish  
 LUBBOCK    TEXAS 79490-    DEKALB    IL 60115    Dia/Thk: 1.3750 in  
 Customer: 0007 182    Leg Length: 144.00 in  
 NAS Order: LN 95255 1    Corrosion:  
 Your Order: 4500541361    Item Code: 160008241

**PRODUCT DESCRIPTION:**

Round Bar, Annealed, Smooth Turned, Cold Finished  
 ASTM A582/12 EN 10204 3.1, ASTM A484/11  
 AMS 5640U TYPE 1, QQS-764B CONDITION A  
 SOLUTION ANNEAL TEMP 1900F MIN

**REMARKS:**

COMPLIES W/REQUIREMENTS OF DEAR 252.225-7014A-1 EU DIRECTIVE  
 2002.95.EC.ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG  
 IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight
BF25228	1164											

**CHEMICAL ANALYSIS**    CM(Country of Melt)    ES(Spain)    US(United States)    ZA(South Africa)    JP(Japan)    Chemical Analysis per ASTM A751/08

Heat	Supplier #	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
F6H8	US		.038	.11	17.12	.33	1.83	.31	.049	8.40	.029	.3495
SI %												
.46												

**MECHANICAL PROPERTIES**

Id	HB	No.	.2YS	KSI	UTS	KSI	RA	%	Elong	%	4D
BF25228	RL	163.0	51.27	90.39	25.67	20.30					

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

Technical  
Dept. Mgt.

*[Signature]*  
ERIC HESS



# CERTIFICATE OF TEST

Certification Date  
8-JAN-2013

**CUSTOMER ORDER NUMBER**

13115

EARLE M. JORGENSEN COMPANY  
P.O. BOX 490130  
1775 101ST AVENUE NE  
BLAINE MN 55449

Invoice Number  
T710977

**CUSTOMER PART NUMBER**

1200887

**SOLD TO:** DOERING COMPANY

6343 RIVER ROAD SE  
CLEAR LAKE MN 55319

**SHIP TO:**

DOERING COMPANY

6343 RIVER ROAD SE  
CLEAR LAKE MN 55319

Description: 303 CF ANN BAR ASTM A582  
1-1/2 RD X 12' R/L

Line Total: 3590 LB

HEAT: E6R1

ITEM: 508838

**Specifications:**

AMS 5640 TYPE 1 U  
ASTM A484 11

ASTM A582 12  
QQ S 764 B

EN 10204 3.1  
UNS S30300

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CHEMICAL ANALYSIS  
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C	CO	CR	CU	MN	MO	N	NI
0.042	0.16	17.05	0.25	1.71	0.37	0.043	8.54
P	S	SI					
0.038	0.327	0.3900					

RCPT: R871932

MILL : NORTH AMERICAN STAINLESS

COUNTRY OF ORIGIN : USA

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MECHANICAL PROPERTIES  
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DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	51.35	84.8	12.79	15.14	141

MATERIAL IS FREE FROM MERCURY CONTAMINATION  
NO WELD REPAIR PERFORMED ON MATERIAL

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.

STEVE TEIPEL

MANAGER, QUALITY ASSURANCE