



**NORTH AMERICAN
STAINLESS**

METALLURGICAL TEST REPORT

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

Certificate: 817902 07 Mail To: RYERSON, INC. Ship To: RYERSON, INC. Date: 3/12/2013 Page: 1 Of 1
 ACCOUNTS PAYABLE DEPARTMENT 1085 PEACE ROAD Steel: 303
 LUBBOCK TX 79490- DEKALB IL 60115 Finish: Cold Finish
 Customer: 0007 182 Leg Length: 1.3750 in
 NAS Order: LN 95255 1 Corrosion: Length: 144.00 in
 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 5640V TYPE 1, QQS-764B CONDITION A
 SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAR 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
BF25228	1164										


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

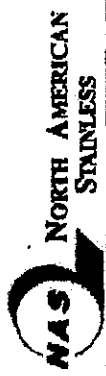
Heat	Supplier #	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
F6H8	US	.038	.11	17.12	.33	1.83	.31	.049	8.40	.029	.3495	
SI %												
.46												

MECHANICAL PROPERTIES

Heat	Supplier #	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %												
BF25228	RL	163.0	51.27	90.39	25.67	20.30																		
<table border="0"> <tr> <td>Hardness</td> <td>HB</td> <td>.2YS</td> <td>UTS</td> <td>RA</td> <td>Elong</td> </tr> <tr> <td></td> <td>No.</td> <td>KSI</td> <td>KSI</td> <td>%</td> <td>% 4D</td> </tr> </table>													Hardness	HB	.2YS	UTS	RA	Elong		No.	KSI	KSI	%	% 4D
Hardness	HB	.2YS	UTS	RA	Elong																			
	No.	KSI	KSI	%	% 4D																			

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. Mgr.

 ERIC HESS



6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-0000

METALLURGICAL TEST REPORT

Certificate: 638125 04 Mail To: Ship To: Date: 4/25/2011 Page: 1 of 1
 NORTH AMERICAN STAINLESS, INC. SOWIT STAINLESS STEEL, INC. Steel: 303
 2001 ELIZABETH STREET 290 KUMBA DRIVE BLDG 100 Finish: Cold Finish
 NORTH WRENTHICK MO 64992 BUCKINGHAME IL 64108 Dis/Trk: 1.5000 in
 Customer: 0370 017 Log Length: 144.00 in
 NAS Order: LW 71713 24 Your Order: RA21640 Item Code: Corrosion:

REMARKS:

Round Bar, Annealed, Smooth Turned, Cold Finished
 ASTM A582/05 EN 10204 3.1, ASTM A484/08
 AMS 5640U TYPE 1, 908-7648 CONDITION A
 COMPLIES WITH REQUIREMENTS OF DEANS NO DIRECTIVE 2002-95.
 EC. ROHS. SAP-ADN+CC. NO WELD REPAIR. WELDED AND WFO IN USA
 FREE FROM MERCURY AND LOW HEALING ALLOY CONTAMINATION

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight
8076899	4414						

CHEMICAL ANALYSIS CH(Country of Heat) ES(Spanish) US(United States) ZA(South Africa) JP(Japan)

Heat	Supplier #	CH	C	CO	CR	CU	NI	N	NI	P	S
9007	08	.038	.07	17.94	.25	1.56	.022	0.54	.010		.3950
		SI									

MECHANICAL PROPERTIES

IC	HB	UTS	RA	ELong	
o.i	%	KSI	%	% 4D	
C.Y					
3076899	R L 153.0	45.46	64.52	21.37	20.89

MUSA / RUBIN & CO
 SO NO 41213-1
 SOLD TO Doering Co
 PO NO 11-1779
 DATE 12-7-11

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

QC ENGINEER ERIC HRESS