



# METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS  
6870 HIGHWAY 42 EAST  
GHENT, KY 40415

188774

6870 HIGHWAY 42 EAST

Certificate: 862000 9  
Customer: 007226 001

Mail To:  
ASA ALLOYS  
20 CHALLENGER CRES.  
SHERWOOD PARK, AB T8H2R1

Ship To:  
ASA ALLOYS  
20 CHALLENGER CRES.  
SHERWOOD PARK, AB T8H2R1

Date: 8/15/2013 Page: 1

Steel: 316/316L

Finish: ST

Your Order: P030175

NAS Order: PN 0028629 10

Corrosion: ASTM A262 Prac E OK

## PRODUCT DESCRIPTION:

NACE MR0175 (MID RADIUS ONLY)  
Round Bar, Annealed, Smooth Turned, Cold Finished  
UNS 31600/31603, EN 10204 3.1, ASTM A484/11  
ASTM A276/10, ASTM A479/12, ASTM A182/10 CHEM ONLY,  
ASME SA479/10a, ASME SA182/10 CHEM ONLY, ASTM F899/11  
AMS 5648L/AMS 5653G, AMS QQS-763R, QQS 763F  
SOLUTION ANNEAL TEMP 1900F MIN. ASTM A320/08 CL 1 GR B3M  
ASTM A193/10A ASME SA193/10 CL 1 GR B3M (EXC PAR 1.2)

## REMARKS:

COMPLIES W/REQUIREMENTS OF D FAR 252.225-7014A 1 EU DIRECTIVE  
2011/65/EU ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG  
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

J1B3

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BF6236 4		2.1250		1,171	144.00	9	1	

## CHEMICAL ANALYSIS

HEAT	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
J1B3	US	.0176	.2545	16.8970	.2795	1.4080	2.0125	.0426	10.6550	.0265
		S %	SI %							
		.0210	.3105							

## MECHANICAL PROPERTIES

Product Id	HB	2YS	UTS	RA	Elong	
	No.	KSI	KSI	%	% 4D	
BF6236 4	R L	142.00	43.00	84.00	54.00	41.00

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 BOSS

8/15/2013