



# METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS,  
6870 HIGHWAY 42 EAST  
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 818755 4  
Customer: 007226 001  
Mail To: ASA ALLOYS  
20 CHALLENGER CRES.  
SHERWOOD PARK, AB T8H2R1

**FLTB.**

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

Date: 4/10/2013 Page: 1

Steel: 316/316L

Finish: RT

Your Order: P029570

NAS Order: IN 0164367 04

Corrosion: ASTM A262 Prac E OK

## PRODUCT DESCRIPTION:

NACE MR0175/07 (MID RADIUS ONLY)  
Round Bar, Hot Rolled, Annealed, Rough Turned  
UNS 31600/31603 EN 10204 3.1, ASTM A484/11  
ASTM A276/10, ASTM A479/11, ASTM A182/10 CHEM ONLY,  
ASME SA479/10a, ASME SA182/10 CHEM ONLY, ASTM F899/11  
AMS 5648L/AMS 5653G, AMS QQS-763B, QQS 763F  
SOLUTION ANNEAL TEMP 1900F MIN

## REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 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

Product Id	Skid #	Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
BF2495 4		3.7500		1,338	144.00	6	1	

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

HEAT	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
F6J3	US	.0206	.2605	16.6600	.4600	1.3365	2.0365	.0499	10.5550	.0370
		S %	SI %							
		.0255	.3650							

## MECHANICAL PROPERTIES

Product Id	l d	o i	HB	.2YS	UTS	RA	Elong
	c r	No.	KSI	KSI	%	% 4D	
BF2495 4	R L	172.00	45.00	88.00	66.00	48.00	

*SV*  
*llc*

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*

ERIC HESS

4/10/2013