

Copy



# METALLURGICAL TEST REPORT

C100366  
NORTH AMERICAN STAINLESS  
6870 HIGHWAY 42 EAST  
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 925687 7	Mail To:	Ship To:	Date: 3/05/2014	Page: 1
Customer: 007226 001	ASA ALLOYS 20 CHALLENGER CRES. SHERWOOD PARK, AB T8H2R1	ASA ALLOYS 20 CHALLENGER CRES. SHERWOOD PARK, AB T8H2R1	Steel: 316/316L	

L576

Your Order: P031955	NAS Order: PN 0035459 08	Corrosion: ASTM A262 Prac E OK
---------------------	--------------------------	--------------------------------

<b>PRODUCT DESCRIPTION:</b>	<b>REMARKS:</b>
-----------------------------	-----------------

NACE MR0175-09 (MID RADIUS ONLY)  
 Round Bar, Annealed, Smooth Turned, Cold Finished  
 UNS 31600/31603, EN 10204 3.1, ASTM A484/13a  
 ASTM A276/10, ASTM A479/13a, ASTM A182/13 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, ASTM A320/08 CL 1 GR B8M  
 ASTM A193/10A-ASME SA193/10 CL 1 GR B8M(EXC PAR 7.2)

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7008 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

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BG1332 4		3.7500		1,384	144.00	3	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 %
L5Y6	US	.0274	.2495	16.6995	.4365	1.3960	2.0090	.0490	10.5350	.0345
		S %	SI %							
		.0240	.3380							

### MECHANICAL PROPERTIES

Product Id	Id	HB	.2YS	UTS	RA	Elong
	o r	No.	KSI	KSI	%	% 4D
BG1332 4	R L	142.00	36.00	81.00	71.00	61.00

SV  
WC

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 apply 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 3/05/2014