



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

ASA

Part 2003 Wt 7004

TBR 2SCH40

1625 70

METALLURGICAL TEST REPORT

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

Certificate: 261525 18
Customer: 007226 001

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

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

Date: 3/06/2017 Page: 1
Steel: 316/316L
Finish: ST
Corrosion: ASTM A262 Prac E OK
Red Ratio: 14.4 :1

Your Order: P040312

NAS Order: IN 0242855 14

PRODUCT DESCRIPTION:

NACE MR0175-2003 (MID RADIUS ONLY)
Round Bar, Annealed, Smooth Turned, Cold Finished
UNS S31600/S31603, BN 10204 3.1, ASTM A484/15
ASTM A276/16, ASTM A479/16, ASTM A182/13 CHEM ONLY,
ASME SA479/13, ASME SA182/10 CHEM ONLY, ASTM F899/11
AMS 5648L/AMS 5653H, AMS QQS-763D, QQS 763F
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 GR B8M
ASTM A193/10A-ASME SA193/10 CL 1 GR B8M(BXC PAR 7.2)

REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7009 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
BI4457 0		2.2500		1,183	144.00	14	1	

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323

CHEMICAL ANALYSIS

NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
249J	US	.0278	.4105	16.6640	.3910	1.2865	2.0295	.0491	10.5800	.0260
		S %	SI %							
		.0265	.2070							

MECHANICAL PROPERTIES

Product Id	l o c k	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BI4457 0	R L	158.0	42.00	87.00	69.00	53.00

Feb 17/17 i.c

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.

KRIS LARK

3/06/2017