



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

METALLURGICAL TEST REPORT

6870 Highway 47 East
Cheney, KY 41045-9615
(502) 347-6000

Certificate: 162515 1
Customer: 007226 001
Mail To: ASA ALLOYS
20 CHALLENGER CRES.
SHERWOOD PARK, AB T9H2R1

SHIP TO: ASA ALLOYS
20 CHALLENGER CRES.
SHERWOOD PARK, AB T9H2R1

Your Order: P038054

NAS Order: IN 0229804 01

Date: 4/06/2016 Page: 1
Steel: 304/304L
Finish: RT
Corrosion: ASTM A262-10 Prac A/E OK
Red Ratio: 4.7 :1

PRODUCT DESCRIPTION:

NACE MR0175 (MID RADIUS ONLY)
Round Bar, Hot Rolled, Annealed, Rough Turned
UNS 30400/30403 EN 10204 3.1, ASTM A484/13a
ASTM A276/15, ASTM A479/15, ASTM A182/13 CHEM ONLY,
ASME SA479/13, ASME SA182/10 CHEM ONLY
AMS 5639H, AMS 5647J, AMS QQS-763D, QQS-763F
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 GR B8
ASTM A193/10A-ASME SA193/10 CL 1 GR B8 (EXC PAR 7.2)

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAR 252.225-7009 EU DIRECTIVE
2011/65/EU-ROHS. EAF+AD+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
BH7819 4		4.0000		1.043	144.00	1	1	

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/14a

HEAT	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
Y1T4	US	.0185	.1790	18.0590	.4165	1.4460	.2735	.0683	8.5105	.0285
		S %	SI %							
		.0255	.2785							

MECHANICAL PROPERTIES

Product Id	1 4	HB	.2YS	UTS	RA	Elong
	o l	No.	KSI	KSI	%	% 4D
BH7819 4	R L	142.0	42.00	81.00	56.00	42.00

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.

KRIS LARR
4/06/2016