



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

METALLURGICAL TEST REPORT

C209957
6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 403607 2	Mail To: ASA ALLOYS 20 CHALLENGER CRES. SHERWOOD PARK, AB T8H2R1	Ship To: ASA ALLOYS 20 CHALLENGER CRES. SHERWOOD PARK, AB T8H2R1	Date: 4/19/2018 Page: 1 Steel: 304/304L Finish: RT Corrosion: ASTM A262/15 Prac A/E OK Red Ratio: 3.7 :1
Customer: 007226 001			
Your Order: P043870	NAS Order: IN 0261861 01	Heat Treat Code: 46,266	

PRODUCT DESCRIPTION:

Round Bar, Hot Rolled, Annealed, Rough Turned
UNS S30400/S30403 EN 10204 3.1, ASTM A484/16
ASTM A276/17, ASTM A479/17, ASTM A182/16a CHEM ONLY,
ASME SA479/13, ASME SA182/13 CHEM ONLY
AMS 5639J, AMS 5647J, AMS QQS-763D, QQS-763F
NACE MR0175-15/MR0103-15(MID RADIUS ONLY), ASTM F899/12b
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/11a CL 1 GR B8
ASTM A193/16-ASME SA193/13 CL 1 GR B8(EXC PAR 6.2)

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
BJ4174 5		4.5000		1,333	144.00	1	1	

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

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

NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
756A	US	.023	.23	18.10	.36	1.38	.351	.075	8.51	.031
		S %	SI %							
		.0230	.25							

MECHANICAL PROPERTIES

Product Id	l o c i d	HB	.2YS KSI	UTS KSI	RA %	Elong % 4D
BJ4174 5	R L	144.0	38.00	84.00	71.00	59.00

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 LARK
4/19/2018