



North American Stainless Canada Inc.
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Canada

METALLURGICAL TEST REPORT

C216139

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Ghent, KY 41045-9615
(502) 347-6000

Certificate: 429932 1	Mail To:	Ship To:	Date: 7/19/2018	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	Finish: ST
Your Order: P044003	NAS Order: PN 0096245 02	Heat Treat Code: 47,780	Corrosion: ASTM A262/15 Prac A/E OK	Red Ratio: 16.1 :1

PRODUCT DESCRIPTION :

NACE MR0175/15(MID RADIUS ONLY)
Round Bar, Annealed, Smooth Turned, Cold Finished
UNS S31600/S31603, EN 10204 3.1, ASTM A484/18
ASTM A276/17, ASTM A479/18, ASTM A182/17 CHEM ONLY,
ASME SA479/18, ASME SA182/13 CHEM ONLY, ASTM F899/12B
AMS 5648/M, AMS 5653/H, AMS-QQS-763/D, QQS:763/F
NACE MR0175/15(MID RADIUS ONLY), MR0103/15(MID RADIUS ONLY)
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/17a CL 1 GR B8M
ASTM A193/17, ASME SA193/13 CL 1 GR B8M(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
BJ6718 1		2.1250		1,051	144.00	1	1	

ANAB, 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 %
863L	US	.017	.27	16.66	.36	1.38	2.107	.039	10.56	.027
		S %	SI %							
		.0270	.26							

MECHANICAL PROPERTIES

Product Id	l o c	d i r	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BJ6718 1	R	L	183.0	47.00	93.00	66.00	46.00

INS

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

7/19/2018