



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

METALLURGICAL TEST REPORT

1778
C289914

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

Certificate: 692313 2 Mail To: Ship To: Date: 5/17/2021 Page: 1
Customer: 007226 003 ASA ALLOYS ASA ALLOYS #100, 112 STRATHMOOR DRIVE Steel: 316/316L
SHERWOOD PARK, AB T8H 2B7 SHERWOOD PARK, AB T8H 2B7 Finish: RT
Your Order: P051333 NAS Order: IN 0289234 04 Heat Treat Code: 63,822 Corrosion: ASTM A262/15 Prac A/E OK
Red Ratio: 3.0 :1

PRODUCT DESCRIPTION:

Round Bar, Hot Rolled, Annealed, Rough Turned
UNS S31600/S31603 EN 10204 3.1, ASTM A484/20b
ASTM A276/17, ASTM A479/20, ASTM A182/20 CHEM ONLY,
ASME SA479/19, ASME SA182/20 CHEM ONLY,
AMS 5648/M, AMS 5653/J, AMS-QQS-763/D, QQS:763/F
NACE MR0175/15 (MID RADIUS ONLY), MR0103/15 (MID RADIUS ONLY)
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/18 CL 1 GR B8M
ASME SA193/19 CL 1 GR B8M(EXC PAR 7.3.1)
GRAIN SIZE = 6-8, ASTM A193/20, CL 1 GR B8M(EXC PAR 6.2.1)

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
BL7814 3		5.0000		1,477	144.00	5	1	

ANAB, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/20

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
L38T	US	.021	.32	16.57	.32	1.36	2.081	.033	10.59	.026
		S %	SI %							
		.0230	.21							

MECHANICAL PROPERTIES

Product Id	1 o c	d i r	HB No.	.2YS KSI	UTS KSI	RA %	Eln % 4D
BL7814 3	R	L	155.0	40.00	86.00	68.00	54.00

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

5/18/2021

NAS