



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

# METALLURGICAL TEST REPORT

155 PCS C288488

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

Certificate: 689457 3    Mail To:    Ship To:    Date: 5/05/2021    Page: 1  
Customer: 007226 003    ASA ALLOYS    ASA ALLOYS    Steel: 316/316L  
#100, 112 STRATHMOOR DRIVE    #100, 112 STRATHMOOR DRIVE    Finish: ST  
SHERWOOD PARK, AB T8H 2B7    SHERWOOD PARK, AB T8H 2B7    Corrosion: ASTM A262/15 Prac A/E OK  
Your Order: P051203    NAS Order: IN 0289044 01    Heat Treat Code: 63,693    Red Ratio: 14.4 :1

## PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished  
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, GRAIN SIZE = 6-8  
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)  
ASTMA193/20 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
BL7682 1		2.2500		1,167	144.00	3	1	

ANAB, ISO/IEC 17025, Certificate# L2323

## CHEMICAL ANALYSIS

Chemical Analysis per ASTM A751/20

NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
L24C	US	.020	.32	16.76	.36	1.32	2.037	.031	10.57	.029
		S %	SI %							
		.0250	.24							

## MECHANICAL PROPERTIES

Product Id	l o c a t i o n	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BL7682 1	R L	145.0	42.00	87.00	65.00	42.00

May 19/21

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

5/06/2021

NAS