



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

# METALLURGICAL TEST REPORT

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

Certificate: 657200 1 Mail To: Ship To:  
ROLLED ALLOYS CANADA, INC. ROLLED ALLOYS CANADA, INC.  
4008 51 AVENUE N.W. 4008 51 AVENUE N.W.  
EDMONTON, AB T6B 3T5 EDMONTON, AB T6B 3T5

Date: 1/07/2021 Page: 1  
Steel: 316/316L  
Finish: RT

Corrosion: ASTM A262/15 Prac A/E OK  
Red Ratio: 5.3 : 1

NAS Order: 1010360ED IN 0286960 04 Heat Treat Code: 58,176

## PRODUCT DESCRIPTION:

Round Bar, Hot Rolled, Annealed, Rough Turned  
UNS S31600/S31603 EN 10204 3.1, ASTM A484/19  
ASTM A276/17, ASTM A479/19, ASTM A182/19A CHEM ONLY,  
ASME SA479/19, ASME SA182/19A CHEM ONLY,  
AMS 5648/M, AMS 5653/J, AMS-QCS-763/D, QCS-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  
ASME SA193/19 CL 1 GR B8M (EXC PAR 7.3.1)  
GRAIN SIZE = 6-8, ASTM A193/19, CL 1 GR B8M (EXC PAR 6.2.1)

## REMARKS:

COMPLIES W/REQUIREMENTS OF DEAR 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
BL0603 0		3.7500		951	144.00		4	1

**CHEMICAL ANALYSIS** CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) ANAB, ISO/IEC 17025, Certificate# L2323  
Chemical Analysis per ASTM A751/14a

NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
F74B	US	.018	.45	16.63	.33	1.40	2.028	.046	10.59	.028
	S %									
	.0295									

HEAT # F74B



TRACER # 0006809ED

## MECHANICAL PROPERTIES

Product Id	1 d o i c x	HB	.2YS KSI	UTS KSI	RA %	Elong % 4D
BL0603 0	RL	166.0	43.00	86.00	68.00	50.00

ROLLING ALLOYS  
**Receiving Inspection**  
By: [Signature]  
Date: 1/13/21

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.

[Signature]  
KRIS LARK

1/07/2021