



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: 551629	2	Mail To:	Ship To:	Date: 3/30/2020	Page: 1
Customer: 007090	001	EARLE M. JORGENSEN CANADA INC. 305 PENDANT DRIVE MISSISSAUGA, ON L5T2W9	EARLE M. JORGENSEN CANADA INC. 305 PENDANT DRIVE MISSISSAUGA, ON L5T2W9	Steel: 316/316L	
Your Order: P941253842		NAS Order: PN 0109088 03	Heat Treat Code: 55,204	Finish: RT	
				Corrosion: ASTM A262/15 Prac A/E OK	
				Red Ratio: 3.0 :1	

PRODUCT DESCRIPTION:

NACE MR0175/15 (MID RADIUS ONLY), MR0103/15 (MID RADIUS ONLY)
Round Bar, Hot Rolled, Annealed, Rough Turned
UNS S31600/S31603 EN 10204 3.1, ASTM A484/18
ASTM A276/17, ASTM A479/18, ASTM A182/19 CHEM ONLY,
ASME SA479/17, ASME SA182/19 CHEM ONLY,
AMS 5648/M, AMS 5653/H, AMS-QQS-763/D, QQS:763/F
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/17a CL 1 GR B8M
ASME SA193/17 CL 1 GR B8M (EXC PAR 7.3.1)
GRAIN SIZE = 6-8, ASTM A193/17, 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
BK6617 0		5.0000		767	144.00	2	1	509364

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 %
D57R	US	.018	.23	16.69	.47	1.36	2.033	.030	10.52	.028
		S %	SI %							
		.0201	.25							

MECHANICAL PROPERTIES

Product Id	l d o i c r	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BK6617 0	R L	149.0	38.00	85.00	68.00	59.00

SEP 02/20

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

3/30/2020

ANS