



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: 734448 3 Mail To:

Ship To:

Date: 10/29/2021 Page: 1

Customer: 007090 001

Steel: 316/316L

Finish: ST

Your Order: P173912842

NAS Order: PN 0127851 01

Heat Treat Code: 66,866

Corrosion: ASTM A262/15 Prac A/E OK

Red Ratio: 7.0 :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 SA182/19 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 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

R296212
521657
Load # 51801

Product Id	Skid #	Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
BM2294 2		3.2500		1,037	144.00	1	1	521657

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 A751/20

NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
N64E	US	.028	.34	16.58	.30	1.37	2.019	.034	10.57	.031
		S %	SI %							
		.0230	.25							

MECHANICAL PROPERTIES

Product Id	l o c a t i o n	HB	No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BM2294 2	R L	179.0		38.87	84.41	73.41	53.15

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

10/29/2021

Provided by CPA

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