



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: 433922 5 Mail To: Ship To: Date: 8/02/2018 Page: 1  
Customer: 007090 001 Steel: 304/304L  
Finish: ST  
Your Order: P881280842 NAS Order: IN 0263469 03 Heat Treat Code: 46,250 Corrosion: ASTM A262/15 Prac A/E OK  
Red Ratio: 3.0 :1

**PRODUCT DESCRIPTION :**

NACE MR0175 (MID RADIUS ONLY)  
Round Bar, Annealed, Smooth Turned, Cold Finished  
UNS S30400/S30403, EN 10204 3.1, ASTM A484/16  
ASTM A276/17, ASTM A479/17, ASTM A182/16a CHEM ONLY,  
ASME SA479/13, ASME SA182/13 CHEM ONLY  
AMS 5639J, AMS 5647J, AMS QQS-763D, QQS-763F  
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/17a CL 1 GR B8  
ASTM A193/16-ASME SA193/13 CL 1 GR B8 (EXC PAR 6.2)

**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

*R524648  
501087  
LOAD # 47392*

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BJ4455 7		5.0000		1,505	144.00	6	1	509087

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 %
756C	US	.018	.22	18.13	.35	1.37	.302	.077	8.52	.030
		S %	SI %							
		.0220	.23							

**MECHANICAL PROPERTIES**

Product Id	Loc	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BJ4455 7	R L	151.0	40.00	82.00	71.00	55.00

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.

*[Signature]*  
KRIS LARK

8/02/2018

*NAS*