



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: 406140 1 Mail To: EARLE M. JORGENSEN CANADA INC. Ship To: EARLE M. JORGENSEN CANADA INC. Date: 8/12/2019 Page: 1
Customer: 007090 001 305 PENDANT DRIVE 305 PENDANT DRIVE Steel: 316/316L
MISSISSAUGA, ON L5T2W9 MISSISSAUGA, ON L5T2W9 Finish: RT
Corrosion: ASTM A262/15 Prac A/E OK
Your Order: P855719842 NAS Order: PN 0092201 01 Heat Treat Code: 46,257 Red Ratio: 3.0 :1

PRODUCT DESCRIPTION:

SOLUTION ANNEAL TEMP 1900F MIN
Round Bar, Hot Rolled, Annealed, Rough Turned
UNS S31600/S31603 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, ASTM F899/12b
AMS 5648M/AMS 5653H, AMS QQS-763D, QQS 763F
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/17a CL 1 GR B8M
ASTM A193/16-ASME SA193/13 CL 1 GR B8M(EXC PAR 6.2)
NACE MR0175/15(MID RADIUS ONLY), MR0103/15(MID RADIUS ONLY)

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
BJ4263 8		5.0000		2,315	144.00	19	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 %
757A	US	.021	.28	16.61	.34	1.32	2.009	.030	10.54	.032
		S %	SI %							
		.0265	.27							

MECHANICAL PROPERTIES

Product Id	l o c	d i c	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BJ4263 8	R	L	141.0	38.31	75.37	72.98	62.63

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

8/12/2019