



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: 605892 2 Mail To: _____ Date: 6/04/2020 Page: 1
Customer: 007090 001 M _____ Steel: 316/316L
Finish: ST
Your Order: P985125842 NAS Order: PN 0115037 01 Heat Treat Code: 58,768 Corrosion: ASTM A262/15 Prac A/E OK
Red Ratio: 8.3 :1

PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished
UNS S31600/S31603, EN 10204 3.1, ASTM A484/20
ASTM A276/17, ASTM A479/19, ASTM A182/19A CHEM ONLY,
ASME SA479/19, ASME SA182/19A 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 A320/17a CL 1 GR B8M
ASME SA193/19 CL 1 GR B8M(EXC PAR 7.3.1)
ASTMA193/19 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+ACD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

*P905823
521655
Load # 49816*

Product Id	Skid #	Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
BL1588 2		3.0000		1,130	144.00	1	1	521655

ANAB, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/14a

CHEMICAL ANALYSIS										
NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
H02X	US	.016	.25	16.55	.30	1.42	2.033	.037	10.57	.026
		S %	SI %							
		.0250	.33							

MECHANICAL PROPERTIES

Product Id	1 d c i x	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BL1588 2	R L	181.0	50.00	89.00	54.00	41.00

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. KRIS LARK 6/04/2020

*P.O. # 5629
Part # 015 - FOUR - 80 - 5T
Description: 1 1/2" SCH
80 SN. 5TD. 705 BORE 316 S/S*

NAS



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BL1588 3		3.0000		1,132	144.00	2	1	521655

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Chemical Analysis per ASTM A751/14a

CHEMICAL ANALYSIS		CM(Country of Melt)	ES(Spain)	US(United States)	ZA(South Africa)	JP(Japan)						
NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %		
H02X	US	.016	.25	16.55	.30	1.42	2.033	.037	10.57	.026		
		S %	SI %									
		.0250	.33									

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KRIS LARK 6/04/2020