

K0C1



METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 885457 1 Mail To: RYERSON CANADA, INC. Ship To: RYERSON CANADA, INC. Date: 10/30/2013 Page: 1
Customer: 007035 520 C/O 35 - RYERSON ETOBICOKE C/O 35 - RYERSON ETOBICOKE Steel: 316/316L
161 THE WEST MALL 161 THE WEST MALL
ETOBICOKE, ON M9C4V8 ETOBICOKE, ON M9C4V8 Finish: RT
Your Order: 742107 NAS Order: PN 0032737 01 Corrosion: ASTM A262 Prac E OK

PRODUCT DESCRIPTION:

Round Bar, Hot Rolled, Annealed, Rough Turned
UNS 31600/31603 EN 10204 3.1, ASTM A484/11
ASTM A276/10, ASTM A479/13a, ASTM A182/13 CHEM ONLY,
ASME SA479/10a, ASME SA182/10 CHEM ONLY, ASTM F899/11
AMS 5648L/AMS 5653G, AMS QQS-763B, QQS 763F
NACE MR0175/MR0103 (MID RADIUS ONLY),
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 GR B8M
ASTM A193/10A-ASME SA193/10 CL 1 GR B8M (EXC PAR 7.2)

REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7014A-1 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

Table with 8 columns: Product Id, Skid #, Diameter, Size, Weight, Length, Mark, Pieces, Commodity Code. Row 1: BF8133 1, 5.0000, 1,760, 144.00, 1, 1, 71643500

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/08

Table with 11 columns: HEAT, CM, C %, CO %, CR %, CU %, MN %, MC %, N %, NI %, P %. Row 1: K0C1, US, .0225, .3375, 16.6515, .4065, 1.4240, 2.0605, .0390, 10.5000, .0310

MECHANICAL PROPERTIES

Table with 7 columns: Product Id, d, HB, .2YS, UTS, RA, Elong. Row 1: BF8133 1, R L, 141.00, 39.00, 81.00, 56.00, 45.00

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 and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr. ERIC HESS 10/30/2013

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RYERSON

M2M MACHINING P.O. - 2012-428 S.O. - 406980