



6870 HIGHWAY 42 EAST

Certificate: 928269 4

Customer: 007226 001

Mail To: ASA ALLOYS 20 CHALLENGER CRES. SHERWOOD PARK, AB T8H2R1

Ship To: ASA ALLOYS 20 CHALLENGER CRES. SHERWOOD PARK, AB T8H2R1

NORTH AMERICAN STAINLESS 6870 HIGHWAY 42 EAST GHEENT, KY 41045

C100908

Date: 3/13/2014 Page: 1

Steel: 316/316L

Finish: ST

Corrosion: ASTM A262 Prac E OK

Your Order: P031955

NAS Order: PN 0035459 06

PRODUCT DESCRIPTION:

NACE MR0175 (MID RADIUS ONLY) Round Bar, Annealed, Smooth Turned, Cold Finished UNS 31600/31603, EN 10204 3.1, ASTM A484/13a 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 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 DEAR 252.225-7008 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 columns: Product Id, Skid #, Diameter, Size, Weight, Length, Mark, Pieces, Commodity Code. Row 1: BG1507 8, 3.0000, 909, 144.00, 13, 1

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

Table with columns: HEAT, CM, C %, CO %, CR %, CU %, MN %, MO %, N %, NI %, P %. Row 1: L5Y8, US, .0186, .2620, 16.6260, .4000, 1.4090, 2.0605, .0405, 10.5150, .0330

MECHANICAL PROPERTIES

Table with columns: Product Id, d, o, c, HB, .2YS, UTS, RA, Elng. Row 1: BG1507 8, R L, 153.00, 45.00, 89.00, 64.00, 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 tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr.

Signature of Eric Hess, ERIC HESS, 3/13/2014