

41654



* CERTIFICATION *

HEAT E42562

ORDER 0467669/022 SON 14611D BOL 0129911 TAG 1703057 02/09/05

----- ITEM DESCRIPTION -----
 GRADE 304L/304
 Size 304L HRART RND BAR 6-1/4 STD Country of Melt: BRI
 Ship Condition A Country of Mfg.: USA
 NAFTA Country of Origin is Country of Melt

Total Bundles 1 SON Weight 2428

----- SPECIFICATIONS -----
 MFG TO FINISHED BAR IN THE USA FROM BILLETS IMPORTED FROM BRITAIN
 AMS 5639H, 5647H SAE-AMS QQ-S-763
 ASME SA182 E01 A03 CHEMISTRY ASME SA320 B8 CL1 E01
 ASME SA479 E01 ASME SA193 B8 CL1D E01 A02
 ASTM A182-02 CHEMISTRY ASTM A262 98 PRACTICE E
 ASTM A276 03 ASTM A314 97
 ASTM A479 03 ASTM A484 03A
 ASTM E112 96 ASTM A320 01 B8 CLASS 1
 ASTM A193 01B B8 CLASS 1 DIN 50049/EN 10204 3.1B
 SOLUTION ANNEALED CONDITION FREE OF CONT. CARBIDE NETWORK
 SOL ANNEAL @ 1900F MIN/WQ TIME SUFF. TO SOLN CARBIDES
 FED STD QQ-S-763F UNS S30400/S30403, AISI304/304L
 NO WELD REPAIR

FREE OF MERCURY CONTAMINATION

----- MECHANICAL & OTHER TESTS -----
 Test Condition A
 Hardness as shipped 147 HBW
 Hardness as shipped (78 HRBS)
 Grain size 5.5 Tensile strength, KSI (MPa) 83.0 (572)
 Micro OK 0.2% Yield Strength, KSI (MPa) 37.5 (259)
 Intergranular corrosion OK
 Elongation % in 4D 60.0
 Reduction of area % 77.0

----- CHEMICAL COMPOSITION -----
 Carbon (C) .022 Manganese (Mn) 1.630
 Phosphorus (P) .027 Sulphur (S) .025
 Silicon (Si) .376 Chromium (Cr) 18.210
 Nickel (Ni) 8.370 Cobalt (Co) .142
 Copper (Cu) .406 Moly (Mo) .440
 Nitrogen (N) .070 Columbium (Cb) .005
 Titanium (Ti) .004 Aluminum (Al) .005
 Tin (Sn) .014 Vanadium (V) .080
 Columbium/
 Tantalum (Cb+Ta) .005
 Iron (Fe) Balance
 Melt Practice EAF
 Refining Practice AOD
 De-long Ferrite 5.9

Knowingly & willfully falsifying or concealing a material act on this form, or making false, fictitious or fraudulent statements or representations herein could constitute a felony punishable under federal statutes.

We hereby certify that the test results shown in this report are correct and accurate as contained in the records of the company and are in compliance with the specifications, codes, and standards listed above.

M.F. Marcano