

E140788

C111324



Certificate of Test

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HEAT E140788 ORDER 653208/ 03 BOL 0228576 * RE-CERTIFICATION * 04/16/15

SHIP TO:
ASA ALLOYS EDMONTON
20 CHALLENGER CRESCENT
SHERWOOD PARK
ALBERTA T8H 2R1 000000000

----- YOUR ORDER & DATE -----
PO33755 7/29/14 CUST# 1550000 CUST TAG#

----- ITEM DESCRIPTION -----
GRADE 304L Ship Condition CONDA
Size 304L RND HRART CONDA 7.0000 x 144.000 RL
Country of Melt: UNITED KINGDOM Country of Mfg.: SWEDEN
NAFTA Country of Origin is Country of Melt
No weld repair
Free of mercury contamination, Free of radiation contamination
No WEEE relevant substances; Meets EU electrical ROHS

Total Bundles 1 Total Weight 1780 Approx. Hot Red. Ratio 4:1

WO 2051426 Bundles: 1B

----- SPECIFICATIONS -----
AMS 5639H, 5647J SAE AMS-QQ-S-763C
UNS S30400, AISI 304 ASME SA479 2007-2013 Ed.
UNS S30403, AISI 304L ASTM A276-15
ASTM A479/A479M 14 ASTM A484 15
DIN 50049/EN 10204 Type 3.1 Solution Annealed Condition
Federal Spec QQ-S-763F Prodec Quality
ASTM A182 14b Sol Ann 1900F min/WQ
NACE MR0175-09, ISO 15156:09

----- MECHANICAL & OTHER TESTS -----
Hardness as shipped (151 HB)
Hardness as shipped 79 HRB
Grain size 4.5 Tensile strength, KSI (MPa) 85.1 (587)
Micro OK 0.2% Yield Strngth, KSI (MPa) 35.8 (247)
Intergranular corrosion OK
Elongation % in 4D 61.0
Reduction of area % 75.0

----- CHEMICAL COMPOSITION -----
Carbon (C) .018 Manganese (Mn) 1.730
Phosphorus (P) .037 Sulphur (S) .025
Silicon (Si) .410 Chromium (Cr) 18.240
Nickel (Ni) 8.030 Cobalt (Co) .124
Copper (Cu) .350 Moly (Mo) .360
Nitrogen (N) .082 Columbium (Cb) .010
Titanium (Ti) .002 Aluminum (Al) .006
Tin (Sn) .009 Boron (B) .001
Tantalum (Ta) .001 Vanadium (V) .060
Tungsten (W) .020 .000
Columbium/
Tantalum (Cb+Ta) .011
Iron (Fe) Balance
Melt Practice EAF
Refining Practice AOD
De-long Ferrite

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. Marcanio, Quality Manager