

Certificate of Test

HEAT E130274 ORDER 643629/ 01 BOL 0223865 * CERTIFICATION * 08/20/13

SHIP TO:
 EARLE M. JORGENSEN COMPANY
 1900 MITCHELL BLVD./ BAY 5

E130274 R 1626+2

SCHAUMBURG 601930000

----- YOUR ORDER & DATE -----
 P538158423 8/20/13 CUST# 0548001 CUST TAG#509092

----- ITEM DESCRIPTION -----
 GRADE 304L/304/302 Ship Condition CONDA
 Size 304L RND HRART CONDA 6.2500 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 2580

WO 2040492 Bundles: 1F

----- SPECIFICATIONS -----
 AMS 5639H, 5647J SAE AMS-QQ-S-763B
 ASME SA182 E07-E10, Add. 11a ASME SA193 E10 A11a
 ASME SA479 E07-E10 A11 ASTM A182 13
 ASTM A262 98 Practice E ASTM A276 13
 ASTM A479/A479M 13 ASTM A484 13
 ASTM A193 12b DIN 50049/EN 10204 Type 3.1
 Solution Annealed Condition Federal Spec QQ-S-763F
 EN 10204 Type 3.1 Document NACE MR0175-09, ISO 15156:09
 DFARS 252.225.7009 10/4/11 DFARS 225.7002-3 (B) (1)
 NACE MR0103-10 NACE MR0175-09, mid-rad hard

----- MECHANICAL & OTHER TESTS -----
 Hardness as shipped (152 HB)
 Hardness as shipped 80 HRB
 Grain size 5.0 Tensile strength, KSI (MPa) 85.7 (591)
 Micro OK 0.2% Yield Strength, KSI (MPa) 36.5 (252)
 Intergranular corrosion OK
 Elongation % in 4D 61.0
 Reduction of area % 76.0

----- CHEMICAL COMPOSITION -----

Carbon (C)	.020	Manganese (Mn)	1.580
Phosphorus (P)	.034	Sulphur (S)	.026
Silicon (Si)	.410	Chromium (Cr)	18.240
Nickel (Ni)	8.130	Cobalt (Co)	.143
Copper (Cu)	.460	Moly (Mo)	.380
Nitrogen (N)	.092	Columbium (Cb)	.010
Titanium (Ti)	.002	Aluminum (Al)	.004
Tin (Sn)	.011	Boron (B)	.001
Tantalum (Ta)	.001	Vanadium (V)	.080
Tungstem (W)	.040		.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

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