

PRODEC QUALITY

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HEAT E191202 ORDER 691013/ 02 BOL 0249149 \* CERTIFICATION \* 01/14/20

SHIP TO:  
ROLLED ALLOYS INC.  
620 PIGEON HILL ROAD  
(860)687-2157 MUST MAKE APPT  
WINDSOR 060950000

HEAT # E191202



TRACER # 0590726US

ROLLED ALLOYS

Receiving Inspection

By:                     

Date: 1/23/2020

----- YOUR ORDER & DATE -----  
0181680-WIN 11/26/19 CUST# 0773001 CUST TAG#0009087

----- ITEM DESCRIPTION -----  
GRADE 304L/304 PRODEC QUALITY Ship Condition CONDA  
Size 304L RND CFA CONDA .8125 x 144.000 RL  
Country of Melt: UNITED KINGDOM Country of Mfg.: UNITED STATES  
No weld repair  
Free of mercury contamination, Free of radiation contamination  
No WEEE relevant substances; Meets RoHS-2011/65/EU and 2015/863.

Total Bundles 1 Total Weight 2200 Approx. Hot Red. Ratio 61:1

WO 2099430 Bundles: 1E

----- SPECIFICATIONS -----  
MEG TO FINISHED BAR IN THE USA FROM BILLETS IMPORTED UNITED KINGDOM  
AMS 5639J, 5647K ✓ SAE AMS-00-S-763D  
ASME BPVC.II.A-2019 SA-182 ASME SA-479 2019 Ed.  
ASME SA-484 2017 Ed. ASME SA-320 B8 CL1, 2017 Ed.  
ASME SA-193 B8 2017 Edition ASTM A182/A182M 19a  
ASTM A262 15 Practice A/E ASTM A276/A276M 17  
ASTM A314 19 ASTM A479/A479M-19  
ASTM A484/A484M 18a ASTM A320 18 B8 Class 1  
ASTM A193 19 B8 Solution Annealed Condition  
NACE MR0175-15, ISO 15156:09 DFARS 252.225.7009 10/4/11  
Federal Spec QQ-S-763F UNS S30400, AISI 304  
UNS S30403, AISI 304L Free of Cont.carbide network  
Prodec Quality EN 10204 Type 3.1 Document  
RA-53 RAM 304L ASTM F899 12b  
NACE MR0103-10 DFARS 225.7002-3(B)(1)  
Solution Anneal 1900Fmin/WQ DFARS 225.7002-3(B)(1)  
QTC is a prolongation of bar 1.4301 X2CrNi18-9 304  
Bars are Eddy Current tested  
Sol Anneal at 1900F min/ Water Quench

----- MECHANICAL & OTHER TESTS -----  
Hardness as shipped 183 HB  
Hardness as shipped ( 88 HRB )  
Grain size 9.0 Tensile strength, KSI (MPa) 92.6 ( 638 )  
Micro OK 0.2% Yield Strngth, KSI (MPa) 41.8 ( 288 )  
Intergranular corrosion OK  
Elongation % in 4D 51.2  
Reduction of area % 74.5

-- Continued --

*M.F. Mancoske*

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

Carbon (C)	.024	Manganese (Mn)	1.390
Phosphorus (P)	.032	Sulphur (S)	.025
Silicon (Si)	.430	Chromium (Cr)	18.160
Nickel (Ni)	8.100	Cobalt (Co)	.184
Copper (Cu)	.440	Moly (Mo)	.430
Nitrogen (N)	.079	Columbium (Cb)	.010
Titanium (Ti)	.007	Aluminum (Al)	.006
Tin (Sn)	.010	Tantalum (Ta)	.001
Vanadium (V)	.060	Tungsten (W)	.032
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

*M.F. Marcanio*