NORTH AMERICAN STAINLESS

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

ertificate: 626924 02
stomer: 0082 001

Mail To:
RELIANCE METALCENTER
33201 WESTERN AVENUE
UNION CITY, CA 94587

Ship To:
RELIANCE METALCENTER
33201 WESTERN AVENUE
UNION CITY, CA 94587

Date: 9/04/2020 Page: 1

Steel: 304

Finish: 2B

ur Order: 02-54318 NAS Order: AN 0905835 05

Corrosion: ASTM A262/15 A;180Bend-OK

RODUCT DESCRIPTION:

AINLESS STEEL COIL,C.R. ANNEALED & PICKLED; UNS 30400
TM A240/19,A480/19,A666/15;ASME SA240/17,SA480/17,SA666/17
EM ONLY ON FOLLOWING ASTM: A276/17,A479/17,A484/16,A312/16
EM ONLY ON FOLLOWING ASME: SA312/13,SA479/13

S 5513J XMRK; MIL-S-5059D AMEND3 (X CROWN MEAS)
CE MR0175/ISO 15156-3:2009 A, MR0103/07;QQS766D-A X MAG PERM
N. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; RoHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg.by a Quality Mgt.Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DFARs Compliant

Product ID #	Coil #	Thickness	Width	Weight	--------Length-------		Mark	Pieces	ITEM NUMBER
01J14J A	* 01J14J A	.0300	48.0000	9,980	COIL	2217.9	5	1	30709-1-048

ANAB, ISO/IEC 17025, Certificate# L232

HEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Chemical Analysis per ASTM A751/14a

HEAT	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
J14J	US	.0484	18.1260	.6195	1.6755	.3875	.0760	8.0105	.0270	.0030

SI %
.2635

ECHANICAL PROPERTIES

Product ID #	Coil #	loc	dir	UTS KSI	20C .2% YS KSI	20C ELONG %-2"	% Tail Hard	Hard R45T R45T
01J14J A	01J14J A	F	T	100.16	53.31	46.51	58.00	53.50

RELEASED QUALITY APPROVAL
INITIALS
SEP 21 20
DATE
PASSED RECEIVING INSP

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. KRIS LARK 9/04/20

NAS NORTH AMERICAN STAINLESS

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 659256 01
Customer: 0082 001

Mail To:
RELIANCE METALCENTER
33201 WESTERN AVENUE
UNION CITY, CA 94587

Ship To:
RELIANCE METALCENTER
33201 WESTERN AVENUE
UNION CITY, CA 94587

Date: 1/14/2021 Page: 1
Steel: 304
Finish: 2B

Your Order: 02-54575 NAS Order: AN 0919958 11 Corrosion: ASTM A262/15 A;180Bend-OK

PRODUCT DESCRIPTION:

STAINLESS STEEL COIL,C.R. ANNEALED & PICKLED; UNS 30400
ASTM A240/20,A480/20a,A666/15;ASME SA240/17,SA480/17,SA666/17
CHEM ONLY ON FOLLOWING ASTM: A276/17,A479/17,A484/16,A312/16
CHEM ONLY ON FOLLOWING ASME: SA312/13,SA479/13

AMS 5513J XMRK; MIL-S-5059D AMEND3 (X CROWN MEAS)
NACE MR0175/ISO 15156-3:2009 A, MR0103/07;QQS766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; RoHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg.by a Quality Mgt.Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DFARs Compliant

Product ID #	Coil #	Thickness	Width	Weight	--------Length--------		Mark	Pieces	ITEM NUMBER
01K36P DB	* 01K36P DB	.0300	48.0000	10,670	COIL	2281.3	13	1	30709-1-048

ANAB, ISO/IEC 17025, Certificate# L2323

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Chemical Analysis per ASTM A751/14a

HEAT	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
K36P	US	.0477	18.0590	.4405	1.6720	.4560	.0535	8.0075	.0290	.0010

SI %
.2820

MECHANICAL PROPERTIES

Product ID #	Coil #	loc	dir	UTS KSI	20C .2% YS KSI	20C ELONG %-2"	% Tail Hard	Hard R45T R45T
01K36P DB	01K36P DB	F	T	102.54	52.26	46.00	54.00	54.50

RELIANCE QUALITY ASSURANCE
JAN 27 2021
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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. KRIS LARK 1/14/2021