



METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

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Certificate: 890927 7	Mail To:	Ship To:	Date: 11/15/2013	Page: 1
Customer: 008058 002	CUPRUM METALES LAMINADOS, SA DE CV	CUPRUM METALES LAMINADOS, SA DE CV	Steel: 316L	
	C/O GARDEN LLC.	C/O GARDEN LLC.	Finish: 2B	
	14405 ATLANTA DRIVE	14405 ATLANTA DRIVE		
	INDUSTRIAL PARK ITC	INDUSTRIAL PARK ITC		
	LAREDO, TX 78045	LAREDO, TX 78045		
Your Order: MX286	NAS Order: DS 0004516 06		Corrosion: ASTM A262/10 A;180Bend-OK	

PRODUCT DESCRIPTION:

STNLS STL COIL, C.R. ANNEALED & PICKLED; UNS 31603
 ASTM A240/13a,A480/13,A666/10;ASME SA240/11a,SA480/11a,SA666/11a
 CHEM ONLY ON FOLLOWING ASTM: A276/13,A479/13a,A484/13a,A312/13
 CHEM ONLY ON FOLLOWING ASME: SA312/11,SA479/11
 AMS 5507F X MRK;
 NACE MR0175/ISO 15156-3:2003 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
 NAS Steel Making Process: EAF, AOD, & Cont. Casting
 Product Mfg.by a Quality Mgt.Sys. in Conf. w/ISO 9001

Product Id	Coil #	Skid #	Thickness	Width	Weight	-----Length-----	Mark	Pieces	Commodity Code
02K4C6 E	02K4C6 E		.0575	48.0000	9,960	COIL	18	1	0600480316L2B

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/08

HEAT	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
K4C6	US	.0222	16.7175	.4855	1.5245	2.0445	.0394	10.0060	.0350	.0010
		SI %								
		.2730								

MECHANICAL PROPERTIES

Product Id#	Coil #	l d o i c r	UTS KSI	.2% YS KSI	ELONG %-2"	Hard RB	Tail Hard
02K4C6 E	02K4C6 E	F T	97.68	57.72	45.03	87.50	84.50

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.

ERIC HESS
11/20/2013