



C4X0

METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Date: 6/06/2012 Page: 1

Mail To:
RYERSON CANADA, INC.
C/O X4 - RYERSON BRAMPTON
7525 FINANCIAL DRIVE
BRAMPTON, ON L6Y5P4

Ship To:
RYERSON CANADA, INC.
C/O X4 - RYERSON BRAMPTON
7525 FINANCIAL DRIVE
BRAMPTON, ON L6Y5P4

Steel: 316/316L

Finish: HRAP

Corrosion: ASTM A262/02aE; 180Bend-OK

Your Order: 716806

NAS Order: FN 0018932 01

PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, HRAP; UNS 31600/31603
ASTM A240/11B, A480/11B, A666/10; ASME SA240/11A, SA480/11A, SA666/11A
CHEM ONLY ON FOLLOWING ASTM: A276/10, A479/11, A484/11, A312/11
CHEM ONLY ON FOLLOWING ASME: SA312/11, SA479/11
AMS 5507F/5524L X MRKJ
NACE MR0175/ISO 15156-3:2003 A, MR0103/07; Q08766D-A X MRG PERM
MIL. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; Q08763F Cond A; RoHS 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
Melted & Manufactured in the USA; Mat'l is DEFARS Compliant

Product Id	Coil #	Slid #	Thickness	Width	Weight	Length	Mark	Pieces	Commodity Code
02C4X0 D	02C4X0 D		.2460	60.0000	10,730 COIL		1	1	75811560

Chemical Analysis per ASTM A751/08

CHEMICAL ANALYSIS

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

HEAT	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
C4X0	VS	.0207	16.8570	.3630	1.4950	2.0295	.0408	10.0450	.0305	.0010
SI %										
.2635										

MECHANICAL PROPERTIES

Product Id#	Coil #	UTS	YS	ELONG	Hard	Tail
		KSI	%-2"	%-2"	RB	Hard
02C4X0 D	02C4X0 D	87.44	48.89	50.46	86.00	85.50

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
6/06/2012