



North American Stainless Canada Inc.  
740 Imperial Road North  
Guelph, ON N1K1Z3  
Canada

# METALLURGICAL TEST REPORT

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

229082

Certificate: 502469 5      Mail To:      Ship To:      Date: 4/23/2019      Page: 1  
Customer: 007060 004      C.F.F. STAINLESS STEEL, INC.      C.F.F. STAINLESS STEEL, INC.  
717 WOODWARD AVENUE      717 WOODWARD AVENUE  
HAMILTON, ON L8H 6P3      HAMILTON, ON L8H 6P3  
Steel: 316/316L  
Finish: 1  
Corrosion: ASTM A262/15A 180Bend-OK

Your Order: C120664      NAS Order: DS 0016650 02

## PRODUCT DESCRIPTION:

STAINLESS STEEL PLATE, HRAP; UNS 31600/31603  
ASTM A240/18, A480/18a, 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: SA312/11, SA479/11  
AMS 5507G/5524L X MRK;  
NACE MR0175/ISO 15156-3:2009 A, MR0103/07; QQS756D-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	Plate#	Skid #	Thickness	Width	Weight	-----Length-----	Mark	Pieces	Commodity Code
05C01J AA	05C01J AA		2.4999	61.4000	10,930	PLATE 240.00	3	1	

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 %
C01J	US	.0140	16.5540	.4995	1.1440	2.0410	.0523	10.1000	.0320	.0010
		SI %								
		.3630								

## MECHANICAL PROPERTIES

Product Id#	l d	o i	UTS	20C .2% YS	20C ELONG	% Hard	R of A
	c r		KSI	KSI	%-2"	RB	%
05C01J AA	F T		87.77	44.06	61.10	79.50	66.23

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

4/23/2019

*NAS*