



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

229331

Certificate: 504369 1 Mail To: Ship To: Date: 4/30/2019 Page: 1
Customer: 007060 004 C.F.F. STAINLESS STEEL, INC. C.F.F. STAINLESS STEEL, INC. Steel: 316/316L
717 WOODWARD AVENUE 717 WOODWARD AVENUE Finish: 1
HAMILTON, ON L8H 6P3 HAMILTON, ON L8H 6P3 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; 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	Plate#	Skid #	Thickness	Width	Weight	-----Length-----	Mark	Pieces	Commodity Code
01B86Y BA	01B86Y BA		2.4999	61.4000	10,840	PLATE 240.00	6	1	

ANAB, ISO/IEC 17025, Certificate# L2323

CHEMICAL ANALYSIS

Chemical Analysis per ASTM A751/14a

HEAT	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
B86Y	US	.0157	16.7240	.5135	1.1710	2.0090	.0622	10.0300	.0340	.0010
		SI %								
		.3220								

MECHANICAL PROPERTIES

Product Id#	l o c	d i r	UTS	20C .2% YS	20C ELONG	%	Hard	R of A
			KSI	KSI	%-2"		RB	%
01B86Y BA	F	T	80.10	41.43	57.10		80.50	66.12

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

4/30/2019

NAS