



METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 523107 7 Mail To:
ROLLED ALLOYS CANADA, INC.
Customer: 007130 011 6810 RUE ERNEST COMIER
LAVAL, QC H7C2T5

Ship To:
ROLLED ALLOYS CANADA, INC.
6810 RUE ERNEST COMIER
LAVAL, QC H7C2T5

Date: 12/03/2009 Page: 1

Steel: 316/316L

Finish: HRAP

Your Order: M10567

NAS Order: PN 0008105 07

6BD2

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

PRODUCT DESCRIPTION:

STAINLESS STEEL PLATE, HRAP; UNS 31600/31603
ASTM A240/09a, A480/09, A666/03; ASME SA240/07, SA480/07, SA666/07
CHEM ONLY ON FOLLOWING ASTM: A276/08a, A479/08, A484/08, A312/08a
CHEM ONLY ON FOLLOWING ASME: SA312/07, SA479/07
AMS 5507F/5524L X MRK;
NACE MR0175/01, MR0103/07; QQS766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'1 is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; QQS763F 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 9001:2000
*Melted & Manufactured in the USA; Mat'1 is DPARs Compliant

Product Id	Plate#	Skid #	Thickness	Width	Weight	-----Length-----	Mark	Pieces	Commodity Code
056BD2 CA	056BD2 CA		1.7575	60.0000	7,400	PLATE	240.00	3	1

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
6BD2	US	.0265	16.7525	.3345	1.4900	2.0505	.0470	10.0025	.0325	.0010
		SI								
		.2310								

MECHANICAL PROPERTIES

Product Id#	Plate#	1 d	UTS	.2% YS	ELONG	Hard	R of A
		o i	KSI	KSI	%-2"	RB	%
		c r					
056BD2 CA	056BD2 CA	F T	89.62	44.11	54.45	80.50	68.77



TRACER# 197872

ROLLED ALLOYS QUALITY ASSURANCE
APPROVED
DATE 12/03/09

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

QC ENGINEER

ERIC HESS

12/03/2009