



METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 445717 5
Customer: 007175 001

Mail To:
ENCORE METALS LIMITED PARTNERSHIP
7470 VANTAGE WAY
TILBURY INDUSTRIAL PARK
DELTA, BC V4G1H1

Ship To:
ENCORE METALS LIMITED PARTNERSHIP
7470 VANTAGE WAY
TILBURY INDUSTRIAL PARK
DELTA, BC V4G1H1

Date: 1/12/2009 Page: 1
Steel: 316L/316
Finish: RT

Your Order: 470581

NAS Order: PN 0005006 14

Corrosion: ASTM A262-02a PRACTICE E-

PRODUCT DESCRIPTION:

Round bar, hot rolled, annealed, rough turned. A484 Rough Turned UNS -S-31600, UNS-S-31603, ASTM A276/04, EN 10204 3.1B, QQS-763F, ASTM A479/04, SAE AMS 5648K, MIL-S862B ASME SA479/04, MIL-S7720 (CHEM ONLY), ASTM A182-02 (CHEM ONLY), ASTM A320/03 Class 1 grade B8M, ASME SA182/04 (CHEM ONLY), ASME SA320/04 Class 1 grade B8M, ASME SA193/04 Class 1 grade B8M (EXC. HARDNESS AND PAR 6.3), ASTM A193/03 Class 1 grade B8M (EXC. HARDNESS AND PAR 6.3), ASTM A314/97 (CHEM ONLY) SAE AMS 5653F, NACE MR0175 (MID RADIUS ONLY AND EXCEPT COLD DRAWN BAR)

REMARKS:

Melted & Manufactured in the USA. Product complies w/ requirements of EU directive 2002.95.EC.RoHS. Material Free from Mercury contamination. No weld repair. NAS certifies the analysis on certification is correct & the material meets specs stated.

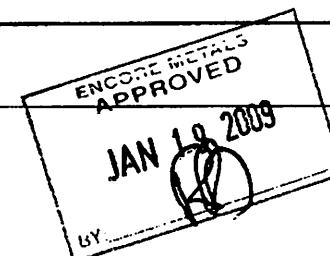
Product Id	Skid #	Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
BC1694 1		4.0000		1,074	144.00	38	1	

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

HEAT	CM	C	CB	CO	CR	CU	MN	MO	N	NI
4FD3	US	.0174	.0113	.2997	16.7920	.4127	1.3554	2.1209	.0582	10.6909
		P	S	SI	TI					
		.0299	.0294	.4516	.0052					

MECHANICAL PROPERTIES

Product Id	1 d o i c r	HB No.	.2 YS KSI	UTS KSI	RA %	.1 YS KSI	Elo-4D %	Oxalic P/F
BC1694 1	C L	140.00	38.00	80.00	71.00	41.00	63.00	1.00



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

QC ENGINEER Eric Hess
ERIC HESS

1/14/2009

P-047058
H-4FD3
C-54361136