



P.O.#5492 Ref # 02-FODE-80(304) Desc. 2" SKH 80 0.871 BORE 304 S/S
METALLURGICAL TEST REPORT
 NORTH AMERICAN STAINLESS
 6870 HIGHWAY 42 EAST
 GHEENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 914007 2
 Customer: 007050 011
 Mail To: ROLARK STAINLESS STEEL, INC.
 4419 97TH STREET NW
 EDMONTON, AB T6E6W6

Ship To: ROLARK STAINLESS STEEL, INC.
 4419 97TH STREET NW
 EDMONTON, AB T6E6W6

Date: 1/30/2014 Page: 1
 Steel: 304/304L
 Finish: RT

Your Order: 2501

NAS Order: IN 0183574 08

Corrosion: ASTM A262-10 PRAC A/E OK

PRODUCT DESCRIPTION:

NACE MR0175(MID RADIUS ONLY)
 Round Bar, Hot Rolled, Annealed, Rough Turned
 UNS 30400/30403 EN 10204 3.1, ASTM A484/11
 ASTM A276/10, ASTM A479/13a, ASTM A182/13 CHEM ONLY,
 ASME SA479/10a, ASME SA182/10 CHEM ONLY
 AMS 5639H, AMS 5647J, AMS QQS-763B, QQS-763F
 SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 Cl. 1 GR B8
 ASTM A193/10A-ASME SA193/10 Cl. 1 GR B8(EXC PAR 7.2)

REMARKS:

COMPLIES W/REQUIREMENTS OF DEAR 252.225-7008 EU DIRECTIVE
 2011/65/EU, ROHS, EAF+ADD+CC. NO WELD REPAIR. MELTED AND MFG
 IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product ID	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BF8476 4		4.0000		1.009	144.00	8	1	

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical Analysis per ASTM A751/08

HEAT	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
K170	US	.0179	.2130	18.0690	.3740	1.3795	.2815	.0769	8.5120	.0320
		S %	SI %							
		.0205	.2980							

MECHANICAL PROPERTIES

Product ID	1 d		.2YS		UTS		RA		Elong	
	o i	HB	KSI	KSI	KSI	%	%	% 4D		
BF8476 4	R L	141.00	37.00	81.00	70.00	61.00				

INS

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
 1/30/2014