

NORTH AMERICAN STAINLESS INSPECTION CERTIFICATE

27696+5



North American Stainless  
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2009 / 80281	DATE	4/02/2009
PACKING LIST # 462918	NUMBER	-
GRADE NAS-264 P.O.# :P225157-423	Item Code:509364	
AISI (316L/316)		

CUSTOMER EARLE M. JORGENSEN COMPANY	TOLERANCE A484 Rough Turn	PRODUCT Round bar, hot rolled, annealed, rough turned.
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ORDER NUMBER LNS4051	MARK# / PROD ID 51001/BC41672	HEAT NUM 4XP0	WEIGHT 2596	REQUIREMENTS AISI	LENGTH 12.00 ft	SURFACE AND DIMENSION CONTROL WITHOUT OBJECTIONS	INTERGRANULAR CORROSION ASTM A262-02a PRACTICE E- Acceptable
				SIZE 5.0000 Inches			

MECHANICAL PROPERTIES

HEAT NUM	UTS KSI	.2 YS KSI	.1 YS KSI	Elong %	RA %	HB No.	Oxalic P/F										
4XP0	89	45	52	46	57	182	P										
Req Values	75 115	30 100		40 100	50 100	140 223											

HEAT NUM																	
4XP0																	
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CHEMICAL COMPOSITION %		CM(Country of Melt) ES(Spain) US(United States)															
CM	HEAT	C	P	S	Si	Mn	Cr	Ni	Mo	Ti	N	Cu	Co	Cb			
US	4XP0	.0152	.0330	.0240	.2985	1.3515	16.9725	10.6850	2.0555	.0025	.0474	.4485	.2505	.0130			
REQUIRED VALUES		.0300	.0450	.0300	1.0000	2.0000	16.0000 18.0000	10.0000 14.0000	2.0000 3.0000		.1000						

**OBSERVATIONS/SPECIFICATIONS**

UNS-S-31600 UNS-S-31603, GRAIN SIZE= 4-6, SAE AMS 5648K, SAE AMS 5653F, QQS-763F, EN 10204 3.1B  
ANNEALED TEMPERATURE 1900F MIN. ASME SA479/01, AMS QQS-763A ASTM A276/09A, ASTM A479/08.

MATERIAL CONFORMS TO LISTED SPECIFICATIONS

Product complies w/requirements of DFARS, EU directive 2002.95, EC.RoHS, and Free from Mercury contaminati  
No weld repair. NAS certifies the analysis on certification is correct & the material meets specs stated.

STEELMAKING PROCESS  
EAF+AOD+CC

QUALITY INSPECTOR  
  
Eric Hess

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