

F9A6



METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

John R. Zumbro

Certificate: 824458 07	Mail To: COPPER AND BRASS SALES, INC. ATTN: ACCOUNTS PAYABLE SOUTHFIELD MI 48086-	Ship To: COPPER AND BRASS SALES, INC. CUSTOMER PICKUP PORTLAND OR 97230	Date: 4/04/2013 Page: 1 Of 1
Customer: 0925 050			Steel: 316/316L
NAS Order: LN 96309 4			Finish: Cold Finish
Your Order: 5400174871	Item Code:		Dia/Thk: 2.0000 in
			Leg Length: 144.00 in
			Corrosion: ASTM A262 Prac E OK

PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished
UNS 31600/31603, EN 10204 3.1, ASTM A484/11
ASTM A276/10, ASTM A479/11, ASTM A182/10 CHEM ONLY,
ASME SA479/10a, ASME SA182/10 CHEM ONLY, ASTM F899/11
AMS 5648L/AMS 5653G, AMS QQS-763B, QQS 763F
NACE MR0175/MR0103(MID RADIUS ONLY),
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7014A-1 EU DIRECTIVE
2011/65/EU.RoHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight
BF30867	940								

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

Heat	Supplier #	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
F9A6		US	.016	.29	16.88	.40	1.40	2.06	.046	10.54	.031	.0235
			SI %									
			.28									

MECHANICAL PROPERTIES

Id	HB	.2YS	UTS	RA	Elong	
o i	No.	KSI	KSI	%	% 4D	
c r						
BF30867	R L	141.0	42.00	84.00	56.00	42.00

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
ERIC HESS

Del.: 2402656503
 CstOr Bozo
 Date 08/21/2013
 From: Copper and Brass Sales CA
 Cust.: ATLANTIS INDUSTRIES
 CstAr
 Wgt.: 134.286 LB