



**NORTH AMERICAN  
STAINLESS**

# JOM9

## METALLURGICAL TEST REPORT

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

Certificate: 853586 05

Mail To:

COPPER AND BRASS SALES, INC.  
ATTN: ACCOUNTS PAYABLE  
SOUTHFIELD MI 48086-

Ship To:

COPPER AND BRASS SALES, INC.  
13338 ORDEN DRIVE  
SANTA FE SPRINGS CA 90670

Date: 7/17/2013 Page: 1 Of 1

Steel: 316/316L

Finish: Hot Finish

Dia/Thk: 5.0000 in

Leg Length:

Length: 144.00 in

Corrosion: ASTM A262 Prac E OK

Customer: 0925 023

NAS Order: LP 3032 4

Your Order: 5400184706

Item Code:

**PRODUCT DESCRIPTION:**

Round Bar, Hot Rolled, Annealed, Rough Turned  
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, ASTM A320/08 CL 1 GR B8M  
ASTM A193/10A-ASME SA193/10 CL 1 GR B8M(EXC PAR 7.2)

**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
BF57969	2305								

**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 %
JOM9		US	.023	.25	16.58	.29	1.38	2.01	.039	10.67	.030	.0265
			SI %									
			.33									

**MECHANICAL PROPERTIES**

Id	HB	.2YS	UTS	RA	E <sub>ing</sub>	
o i	No.	KSI	KSI	%	% 4D	
c r						
BF57969	R L	162.0	43.00	85.00	67.00	51.00

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

Cust. ATLANTIS INDUSTRIES

Del.: 2402613921

Technical  
Dept. Mgr.

ERIC HESS

CstAr

CstOr Bozo

Wgt.: 77.00 LB

Date 07/31/2013