

D4M1

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



METALLURGICAL TEST REPORT

Ship To: 8/13/2012 Page: 1 Of 1
 Date: 8/13/2012
 Steel: 316/316L
 Finish: Hot Finish
 Dia./Thk: 4.0000 in
 Leg Length: 144.00 in
 Corrosion: ASTM A262 Prac E OK

Ship To: COPPER AND BRASS SALES, INC.
 CUSTOMER PICKUP CA 90670
 SANTA FE SPRINGS

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

Customer: 0925 023
 NAS Order: LN 86578 5
 Your Order: 5400149936

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
 AMS 5648L/AMS 5653G, AMS QQS-763B, QQS 763P
 NACE MR0175/MR0103 (MILD RADIUS ONLY),
 SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DFR 252.225-7014A-1 EU DIRECTIVE
 2002.95.EC.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
BE79851	1047	BE79852	1041				

Chemical Analysis per ASTM A751/08

Heat	Supplier #	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
D4M1	US		.019	.28	16.78	.42	1.44	2.00	.041	10.50	.031	.0210
			SI %									
			.39									

MECHANICAL PROPERTIES

1 d	HB	No.	.2YS	KSI	UTS	KSI	RA	%	Elong	% 4D
BE79851	R L	165.0	42.00	88.00	88.00	69.00	50.00			
BE79852	R L	165.0	42.00	88.00	88.00	69.00	50.00			

Part: 52
 Wgt: 85 LB
 PO: BOZO
 Date 01/03/2013

Technical Dept. Mgr.
 ERIC HESS

Signature: John R. Zumbroff

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 listed and are not to be construed as an approval of NAS.