

BOCO



METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

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Certificate: 742885 1 Mail To: Ship To: Date: 9/25/2012 Page: 1
Customer: 000925 900 COPPER AND BRASS SALES, INC. COPPER AND BRASS SALES, INC. CUSTOMER PICKUP Steel: 304/304L
13338 ORDEN DRIVE CUSTOMER PICKUP 13338 ORDEN DRIVE Finish: ST
SANTA FE SPRINGS, CA 90670 SANTA FE SPRINGS, CA 90670 Corrosion: ASTM A262 Prac A/B OK

PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished
UNS 30400/30403, EN 10204 3.1, ASTM A484/08
ASTM A276/10, ASTM A479/10a, ASTM A182/10 CHEM ONLY,
ASME SA479/10a, ASME SA182/10 CHEM ONLY
AMS 5639H, AMS 5647J, AMS QQS-763B, QQS-763F
NACE MR0175-03 (Mid Radius Only)

REMARKS:

COMPLIES W/REQUIREMENTS OF DFARS EU DIRECTIVE 2002.95.
EC. RoHS. BAP+AOD+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
BE2989 3		5.0000		1,545	144.00	1	1	

CHEMICAL ANALYSIS

HEAT	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
BOCO	US	.0180	.1130	18.0340	.3695	1.3575	.2610	.0664	8.5530	.0375
		S %	SI %							
		.0199	.4100							

MECHANICAL PROPERTIES

Product Id	1 d	HB	.2YS	UTS	RA	Elng
	o i	No.	KSI	KSI	%	% 4D
	c r					
BE2989 3	R L	150.00	43.00	84.00	59.00	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.

Technical
Dept. Mgr.

ERIC HESS

9/25/2012