



K0C3-3.125

METALLURGICAL TEST REPORT

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

Certificate: 880319 02 Mail To: Ship To: Date: 10/15/2013 Page: 1 Of 1
 COPPER AND BRASS SALES, INC. COPPER AND BRASS SALES, INC.
 ATTN: ACCOUNTS PAYABLE 12321 CUTTEN ROAD Steel: 316/316L
 SOUTHFIELD MI 48086- HOUSTON TX 77066 Finish: Cold Finish
 Customer: 0925 072 Dia/Thk: 3.1250 in
 NAS Order: LP 8738 5 Leg Length:
 Your Order: 5400197988 Length: 240.00 in
 Item Code: 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 A479/13a, ASTM A182/13 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 B8 (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
BF81009	2132								

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 %
K0C3		US	.023	.34	16.56	.38	1.47	2.05	.037	10.52	.030	.0169
			SI %									
			.26									

MECHANICAL PROPERTIES

1 d	HB	.2YS	UTS	RA	Elong	
o i	No.	KSI	KSI	%	% 4D	
o i						
BF81009	R L	158.0	41.00	85.00	69.00	53.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test method used, the material meets the specifications stated. These results relate on the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr. 

ERIC HESS

John R. Zambelli

From: Copper and Brass Sales CA Del.: 2403317563

Cust. ATLANTIS INDUSTRIES

CstOr Bozo

Date 08/08/2014

CstAr

Wgt.: 83 LB

COPPER AND BRASS SALES

MATERIAL TYPE

STAINLESS STEEL

AISI SERIES

200 300 400

AND

PRECIPIT HARDENING GRADES

"WARNING"

INHALATION OF FUMES, FRESHLY GENERATED BY THE WELDING OF STAINLESS STEEL CONTAINING ONE OR MORE OF THE FOLLOWING INGREDIENTS, ZINC, MAGNESIUM OR COPPER, ARE KNOWN TO CAUSE METAL FUME FEVER. INHALATION OF DUST OR FUME FROM STAINLESS STEEL CONTAINING ONE OR MORE OF THE FOLLOWING INGREDIENTS, ALUMINUM, IRON, MANGANESE, SELENIUM, OR TIN, HAS ALSO BEEN REPORTED TO CAUSE METAL FUME FEVER AND MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT AND/OR AGGRAVATE PRE-EXISTING CONDITIONS. TARGET ORGAN IS PRIMARILY THE LUNG.

THIS PRODUCT MAY CONTAIN CHROMIUM, NICKEL OR COBALT. EXPOSURE TO DUST OR FUME MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND LIVER DAMAGE. UNDER HIGH TEMPERATURES, HEXAVALENT CHROMIUM MAY BE PRODUCED, IF IN THE INSOLUBLE FORM, IT IS A CONFIRMED HUMAN CARCINOGEN. THIS PRODUCT MAY ALSO CONTAIN NICKEL AND COBALT. INHALATION OF NICKEL OR COBALT DUST OR FUME MAY RESULT IN INFLAMMATION OF THE RESPIRATORY TRACT. NICKEL AND COBALT HAVE BEEN IDENTIFIED AS POTENTIAL HUMAN CARCINOGENS.

IF COATED WITH OIL, MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT. WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.

READ THE STAINLESS STEEL MATERIAL SAFETY DATA SHEET (MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

* If processing or recycling produces particulate, use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding, grinding, abrasive sawing, sanding and polishing. Any activity which abrades the surface of this material can generate airborne particulate. Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

* Stainless steel, in solid form and as contained in finished products presents no special health risk.

* Sold for manufacturing purposes only. This product can be recycled; contact your sales representative.

The Occupational Safety and Health Administration require employers to provide training in the proper use of this product.

For additional information, call or write to Copper and Brass Sales, 22355 West Eleven Mile Road, Southfield, MI 48033, telephone 248-233-5600, or visit our web site @ www.copperandbrass.com.