## **CERTIFICATE** OF SPECIFICATION



ITEM NUMBER

PHONE (203) 597-5000 • FAX 203-597-5068 12441E 7111 cust. No. | TERR. ASDSAZ

**CONSIGNEE CUSTOMER** BROWN METALS COMPANY BROWN METALS COMPANY 8635 WHITE OAK AVENUE 8635 WHITE OAK AVENUE RANCHO CUCAMONGA, CA RANCHO CUCAMONGA, CA 91730 91730 - 1 CUST ORD DATE CUSTOMER ORDER NUMBER CONSIGNEE ORDER NUMBER 092507 20496 THICKNESS WIDTH IN INCHES TEMPER ALLOY .01000 36.0000 ANNL 304M CERTIFICATE OF: CUSTOMER SPECIFICATION NUMBER CHEMICAL ANALYSIS AMS 5513H AND 5516N; Χ TEST COMPLIANCE (1) Χ ASTM 666-03 AND A240-07 CUSTOMER PART NAME AND NUMBER DATE DATE SHIPPED 11/13/07 WELDED TUBES 302/304ANN010-2BA MECHANICAL PROPERTIES AVERAGE GRAIN DIAMETER (MM) YIELD STRENGTH TENSILE STRENGTH QUANTITY HARDNESS RB ELONG % IACS (LBS) (KSI)(2) (KSI)(2) NONTH AMERICAN STAINLESS MELITED THE USZ DFARS COMPLIANT 72 42 100 60.0 TRANS 8.5 11688 MATERIAL PASSES 180 DEG. BADWAY .010 DIAMETER BEND TEST---GAUGE READINGS: .01002----SURFACE RA T:6/11 UIN P:3/6 UIN EMBRITTLEMENT TEST - CONFORMS TO SPECIFICATION HEAT MICAL ANALYSIS F RCENTAGES COIL NUMBER C CO CV NI CR .175 9.678 18.192.039 2VW3 .057 1.811 .16 .001 .378 S079607 FE REM

1 IF THIS REPORT IS A "CERTIFICATE OF COMPLIANCE" THE MATERIAL FURNISHED ON ORDER SHOWN ON THIS REPORT COMPLIES WITH REQUIREMENTS OF THE SPECIFICATION SHOWN AS FOLLOWS: CHEMICALLY (BASED ON LADLE ANALYSIS) AS LISTED AND MECHANICALLY (BASED ON AVAILABLE PRODUCTION DATA).

0.2% OFFSET

3. UNLESS OTHERWISE SHOWN % NI INCLUDES SMALL AMOUNT OF COBALT.

NOTARY PUBLIC

4 LADLE ANALYSIS

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED IN THIS REPORT HAS BEEN INSPECTED, AND HAS BEEN FOUND TO CONFORM WITH THE ABOVE SPECIFICATIONS AND DESCRIPTION, AND THAT SAID MATERIAL HAS BEEN FOUND TO HAVE THE ABOVE COMPOSITION AND PROPERTIES.

22205 OUR ORDER NUMBER

SALES CLASS CON

ASSISTANT FOREMAN

INSPECTION DEPARTMENT

SWORN TO AND SUBSCRIBED BEFORE ME

THIS

DAY OF

Kennelt



## METALLURGICAL TEST REPORT

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

(502) 347-6000 Mail To: Ship To: Certificate: 372283 03 Date: 10/02/2007 Page: 1 SOMERS THIN STRIP SOMERS THIN STRIP BRASS DIVISION OLIN CORP. BRASS DIVISION OLIN CORP. Customer: 0085 001 Steel: 304DDQ BALDWIN AVENUE GATE 2 BALDWIN AVENUE GATE 2 WATERBURY, CT 06720 WATERBURY, CT 06720 Finish: 2D Your Order: 3103 Corrosion: ASTM A262/02aE;180Bend-OK NAS Order: AN 0377774 01 REMARKS: PRODUCT DESCRIPTION: Mat'l Free of Mercury Contamination. No weld repairs. STAINLESS STEEL COIL, COLD ROLLED, ANNEALED AND PICKLED. QQS763F cond A; RoHS Compliant ASTMA240/07,480/06b,666/03,ASMESA240/04-A05,480/04-A05,SA666/04 \* Melted & Manufactured in the USA QQS766D-A X MG PERM, AMS5513G X MRK, MIL5059D, AMD3, X CRWN MEAS Somers Spec 3040H Rev B; Number #2009 Product ID # Coil # Thickness Width Weight -----Length-----Mark Pieces REQ. NO. 022VW3 B \* 022VW3 B .0350 36.0000 14,570 COIL 3381.1 11 1 spec 2009; rev d CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) Heat. CM C CO CR CU MIN P S SI MO NI 2VW3 US .057 .160 18.192 .175 1.811 039 029 < .133 9.678 .001 .378 MECHANICAL PROPERTIES 1 d UTS .2% YS ELONG Tail A 262 Lard Grain Product ID # Coil # o i KSI KSI %-2" Hard No. Pr A c r 022VW3 B 022VW3 FL 99.00 42.34 47.84 022VW3 B 022VW3 FT 91.89 79.00 79.00 41.07 55.12 8.500 OK

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

QC ENGINEER

£22

10/02/2007

ERIC HESS