

15W5



METALLURGICAL TEST REPORT

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

Certificate: 167697 07 Mail To: SHIP TO: COPPER AND BRASS SALES, INC.  
COPPER AND BRASS SALES, INC.  
CUSTOMER PICKUP  
PORTLAND

ASTM: ACCOUNTS PAYABLE  
SOUTHFIELD MI 48086-  
OR 97230

Customer: 0925 050  
NAS Order: LP 46984 4  
Your Order: 5400297965  
Item Code: SSRD00268

PRODUCT DESCRIPTION:  
Round Bar, Hot Rolled, Annealed, Rough Turned  
UNS 31600/31603 EN 10204 3.1, ASTM A484/15  
ASTM A276/15, ASTM A479/15, ASTM A182/13 CHEM ONLY,  
ASME SA479/13, ASME SA182/10 CHEM ONLY, ASTM F899/11  
AMS 5648L/AMS 5653E, AMS QQB-763D, QQB 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 DEAR 252.225-7009 BY DIRECTIVE  
2011/65/EU. ROHS. ENF+ADD+CC. NO WELD REPAIR. WELDED AND WPG  
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

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Steel: 316/316L  
Finish: Hot Finish  
Dia/Thk: 3.7500 in  
Leg Length: 144.00 in  
Corrosion: ASTM A262 Prac E OR

| Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| BH86563       | 1389          |               |               |               |               |               |               |

CHEMICAL ANALYSIS CH(China) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

| Heat Supplier # | CM | C %  | CO % | CR %  | CU % | MN % | MO % | N %  | NI %  | P %  | S %   |
|-----------------|----|------|------|-------|------|------|------|------|-------|------|-------|
| Z5W5            | US | .013 | .29  | 16.66 | .32  | 1.44 | 2.01 | .033 | 10.52 | .031 | .0187 |

| MECHANICAL PROPERTIES |     |       |       |       |       |       |  |  |  |  |  |
|-----------------------|-----|-------|-------|-------|-------|-------|--|--|--|--|--|
| ID                    | EB  | No.   | .2YR  | UTS   | RA    | King  |  |  |  |  |  |
| o l                   |     |       | KSI   | KSI   | %     | % 4D  |  |  |  |  |  |
| BH86563               | R L | 141.0 | 35.00 | 78.00 | 72.00 | 67.00 |  |  |  |  |  |

MECHANICAL PROPERTIES

| ID      | EB  | No.   | .2YR  | UTS   | RA    | King  |  |  |  |  |  |
|---------|-----|-------|-------|-------|-------|-------|--|--|--|--|--|
| o l     |     |       | KSI   | KSI   | %     | % 4D  |  |  |  |  |  |
| BH86563 | R L | 141.0 | 35.00 | 78.00 | 72.00 | 67.00 |  |  |  |  |  |

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. KRIS LARK

From: TK Materials CA, Ltd.  
Cust. NEXXA INDUSTRIES LTD.  
CstAr  
Wgt.: 160.764 LB

Del.: 2404583894  
CstOr Kevin  
Date 06/08/2016

*Thomas Sanchez*