

# CERTIFIED MILL TEST REPORT



**The Best Value -  
Price, Quality, Service  
All The Time.**

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BONNEY FORGE CORPORATION  
P.O. BOX 330 • 14496 CROGHAN PIKE • MOUNT UNION, PA 17066-0330  
(814) 542-2545 • (800) 345-7546 • FAX (814) 542-4906  
www.bonneyforge.com

CUSTOMER: WFI INTERNATIONAL, INC.

DATE 08/29/2014

CUSTOMER  
ORDER NO.: BD00070800

BONNEY ORDER NO. B000173072

SHIP TO: AMERICA DISPATCH  
302 QUIVIRA DRIVE  
LAREDO TX 78045  
United States

PO# 270  
C1412668

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.	CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
1	200	59537	3/4 3000 A105 90EL S	SA/A105 Al 0.028 C 0.200 Co 0.003 Cr 0.050 Cu 0.040 Mn 1.020 Mo 0.008 N 0.004 Nb 0.011 Ni 0.020 P 0.007 S 0.019 Si 0.190 V 0.003 CE(Long Formula) = 0.39 T/S(PSI) 74,007 Y/S(PSI) 50,578 EL(%) 35.30 RA(%) 62.02 Brinell 137 BHN 137 BHN
2	20	59454	11/4 3000 A105 90EL S	SA/A105 Al 0.028 C 0.210 Co 0.004 Cr 0.030 Cu 0.040 Mn 1.050 Mo 0.004 N 0.003 Nb 0.012 Ni 0.020 P 0.007 S 0.019 Si 0.240 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 78,110 Y/S(PSI) 48,651 EL(%) 34.40 RA(%) 60.44 Brinell 135 BHN 139 BHN
3	50	59194	11/2 3000 HOT-DIP TEE T	SA/A105 Al 0.022 C 0.210 Co 0.004 Cr 0.020 Cu 0.060 Mn 1.040 Mo 0.007 N 0.003 Nb 0.016 Ni 0.030 P 0.004 S 0.019 Si 0.210 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 77,241 Y/S(PSI) 50,222 EL(%) 31.50 RA(%) 62.80 Brinell 139 BHN 141 BHN
4	50	59464	1 3000 A105 TEE S	SA/A105 Al 0.031 C 0.210 Co 0.003 Cr 0.050 Cu 0.070 Mn 0.980 Mo 0.006 N 0.003 Nb 0.012 Ni 0.020 P 0.009 S 0.018 Si 0.190 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 75,816 Y/S(PSI) 51,031 EL(%) 35.70 RA(%) 65.60 Brinell 141 BHN 141 BHN

We certify that the data on this sheet is a true copy taken from our records of material furnished us by the production mill, or as obtained by additional laboratory checks.

by Kylee Ruiz

Kylee Ruiz  
QUALITY PROCESS MANAGER

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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.	CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
5	30	59281	1 1/2 3000 A105 TEE S	SA/A105 Al 0.025 C 0.200 Co 0.004 Cr 0.050 Cu 0.060 Mn 1.050 Mo 0.007 N 0.003 Nb 0.012 Ni 0.030 P 0.009 S 0.018 Si 0.250 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 80,569 Y/S(PSI) 51,333 EL(%) 30.45 RA(%) 61.22 Brinell 150 BHN 147 BHN
6	50	59377	2 3000 A105 TEE T	SA/A105 Al 0.024 C 0.210 Co 0.005 Cr 0.030 Cu 0.060 Mn 1.040 Mo 0.006 N 0.004 Nb 0.015 Ni 0.030 P 0.006 S 0.022 Si 0.220 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 80,401 Y/S(PSI) 50,949 EL(%) 31.45 RA(%) 60.44 Brinell 137 BHN 137 BHN

1. THE MATERIAL SUPPLIED IS FREE FROM MERCURY AND RADIUM CONTAMINATION.
2. THE FITTINGS SUPPLIED ARE IN ACCORDANCE WITH PURCHASE ORDER SPECIFICATIONS.
3. THE MATERIAL SUPPLIED MEETS THE REQUIREMENTS OF NACE MRO175/ISO 15156-2.
4. CERTIFYING ASTM A105-13 / ASME SA105-10 EDITION.
5. THE FITTINGS SUPPLIED WERE NOT SUBJECTED TO ANY FORM OF WELD REPAIR.
6. THE PRODUCT SUPPLIED WAS INSPECTED IN ACCORDANCE WITH EN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT. (EUROPEAN STANDARD)
7. ELONGATION TEST RESULTS ARE OBTAINED USING STANDARD ROUND SPECIMEN, 2 INCH OR 50 MM GAGE LENGTH.
8. THE MATERIAL SUPPLIED IS IN THE AS-FORGED CONDITION.

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by Kylee Ruiz  
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QUALITY PROCESS MANAGER