

CERTIFIED MILL TEST REPORT



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

LOG NO. F00000000022066

Page 1 of 3

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 11/30/2011

CUSTOMER
ORDER NO.: BD00065558

BONNEY ORDER NO. B000109716

SHIP TO: AMERICAN DISPATCH
302 QUIVIRA DR MODERN IND PARK
LAREDO TX 78045

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
1	150	58454	3/4 3000 A105 90EL T SA/A105 C 0.210 Cb 0.000 Co 0.003 Cr 0.030 Cu 0.080 Mn 1.020 Mo 0.010 Ni 0.030 P 0.009 S 0.021 Si 0.210 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 78,750 Y/S(PSI) 52,500 EL(%) 29.25 RA(%) 63.50 Brinell 141 BHN 141 BHN
2	150	58410	11/2 3000 A105 90EL T SA/A105 Al 0.021 C 0.200 Cb 0.000 Co 0.004 Cr 0.030 Cu 0.150 Mn 1.020 Mo 0.010 Ni 0.070 P 0.006 S 0.023 Si 0.190 V 0.003 CE(Long Formula) = 0.39 T/S(PSI) 75,000 Y/S(PSI) 48,375 EL(%) 32.40 RA(%) 62.30 Brinell 137 BHN 139 BHN
3	50	58435	3/4 3000 A105 90EL S SA/A105 Al 0.025 C 0.210 Co 0.003 Cr 0.030 Cu 0.090 Mn 1.030 Mo 0.010 N 0.005 Nb 0.014 Ni 0.040 P 0.008 S 0.024 Si 0.220 V 0.003 CE(Long Formula) = 0.40 T/S(PSI) 78,750 Y/S(PSI) 51,250 EL(%) 28.85 RA(%) 62.55 Brinell 147 BHN 150 BHN
4	14	58443	2 3000 A105 TEE T SA/A105 Al 0.025 C 0.210 Co 0.002 Cr 0.040 Cu 0.100 Mn 1.020 Mo 0.000 N 0.003 Nb 0.016 Ni 0.020 P 0.009 S 0.019 Si 0.190 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 76,250 Y/S(PSI) 51,250 EL(%) 29.40 RA(%) 61.80 Brinell 135 BHN 135 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 *Lavonne Brown*
 Lavonne Brown
 QUALITY PROCESS MANAGER

CMTR: REV2

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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
4	42	58517	2 3000 A105 TEE T SA/A105 Al 0.019 C 0.190 Co 0.001 Cr 0.020 Cu 0.040 Mn 1.090 Mo 0.000 Nb 0.017 Ni 0.010 P 0.006 S 0.019 Si 0.210 V 0.004 T/S(PSI) 77,500 Y/S(PSI) 51,250 EL(%) 29.60 RA(%) 63.00 Brinell 147 BHN 144 BHN
4	4	58541	2 3000 A105 TEE T SA/A105 Al 0.023 C 0.200 Co 0.002 Cr 0.040 Cu 0.030 Mn 1.040 Mo 0.000 N 0.003 Nb 0.000 Ni 0.020 P 0.005 S 0.021 Si 0.210 V 0.003 T/S(PSI) 80,793 Y/S(PSI) 52,211 EL(%) 30.70 RA(%) 61.34 Brinell 153 BHN 153 BHN
5	5	58347	11/2X11/2X 3/4 3M A105 TEE T SA/A105 Al 0.020 C 0.200 Co 0.004 Cr 0.060 Cu 0.090 Mn 1.040 Mo 0.010 N 0.005 Nb 0.016 Ni 0.040 P 0.008 S 0.022 Si 0.180 V 0.003 CE(Long Formula) = 0.40 T/S(PSI) 76,250 Y/S(PSI) 50,000 EL(%) 30.50 RA(%) 63.50 Brinell 139 BHN 141 BHN
5	17	58276	11/2X11/2X 3/4 3M A105 TEE T SA/A105 Al 0.027 C 0.210 Cb 0.000 Co 0.003 Cr 0.030 Cu 0.120 Mn 1.050 Mo 0.010 N 0.005 Nb 0.015 Ni 0.040 P 0.009 S 0.018 Si 0.190 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 80,000 Y/S(PSI) 50,000 EL(%) 29.15 RA(%) 63.00 Brinell 156 BHN 147 BHN

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LAREDO TX 78045

ITEM QUANTITY LOT NO.

**GRADE OR SPECIFICATION NO.
CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:**

5	8	58276	11/2X11/2X 3/4 3M A105 TEE T	SA/A105
A1 0.027 C 0.210 Cb 0.000 Co 0.003 Cr 0.030 Cu 0.120 Mn 1.050 Mo 0.010 N 0.005 Nb 0.015 Ni 0.040 P 0.009 S 0.018 Si 0.190 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 80,000 Y/S(PSI) 50,000 EL(%) 29.15 RA(%) 63.00 Brinell 156 BHN 147 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 A105-10 / 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

Lavonne Brown

Lavonne Brown

QUALITY PROCESS MANAGER

CMTR: REV2