

CERTIFIED MILL TEST REPORT



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

LOG NO. F0000000024711 Page 1 of 3

BONNEY FORGE CORPORATION
P.O. BOX 330 • 14496 CROGHAN PIKE • MOUNT UNION, PA 17086-0330
(814) 542-2545 • (800) 345-7546 • FAX (814) 542-4808
www.bonneyforge.com

CUSTOMER: WFI INTERNATIONAL, INC.

DATE 12/14/2011

CUSTOMER

BONNEY ORDER NO. B000120867

ORDER NO.: BD00065688

PO# 11766

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

REF: CI116064-PLESA ANAHAUC

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.	
			CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS	
1	30	58152	11/2 3000 HOT-DIP TEE T	SA/A105
			Al 0.026 C 0.200 Cb 0.000 Co 0.004 Cr 0.030 Cu 0.090 Mn 1.010 Mo 0.010	
			N 0.005 Nb 0.015 Ni 0.030 P 0.005 S 0.019 Si 0.200 V 0.004	
			CE(Long Formula) = 0.39	
			T/S(PSI) 77,500 Y/S(PSI) 48,750 EL(%) 31.20 RA(%) 63.00	
			Brinell 150 BHN 150 BHN	
2	30	58321	1 3000 HOT-DIP TEE T	SA/A105
			Al 0.022 C 0.200 Co 0.003 Cr 0.030 Cu 0.180 Mn 1.010 Mo 0.010 N 0.004	
			Nb 0.012 Ni 0.040 P 0.007 S 0.019 Si 0.190 V 0.003	
			CE(Long Formula) = 0.39	
			T/S(PSI) 76,875 Y/S(PSI) 52,500 EL(%) 28.45 RA(%) 62.55	
			Brinell 139 BHN 137 BHN	
3	20	58572	3/4 3000 HOT-DIP TEE T	SA/A105
			Al 0.022 C 0.190 Co 0.005 Cr 0.040 Cu 0.210 Mn 1.050 Mo 0.010 N 0.005	
			Nb 0.015 Ni 0.060 P 0.007 S 0.019 Si 0.200 V 0.004	
			CE(Long Formula) = 0.39	
			T/S(PSI) 76,250 Y/S(PSI) 51,250 EL(%) 30.20 RA(%) 65.85	
			Brinell 147 BHN 144 BHN	
4	20	58570	1 X 1 X 3/4 3M HOT-DIP TEE T	SA/A105
			Al 0.022 C 0.200 Cb 0.000 Co 0.004 Cr 0.040 Cu 0.100 Mn 1.100 Mo 0.010	
			N 0.004 Nb 0.018 Ni 0.030 P 0.007 S 0.022 Si 0.170 V 0.004	
			CE(Long Formula) = 0.40	
			T/S(PSI) 73,750 Y/S(PSI) 48,750 EL(%) 31.55 RA(%) 66.10	
			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 Meloney Specht

Meloney Specht
QUALITY PROCESS MANAGER

CMTR: REV2

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DATE 12/14/2011

CUSTOMER

BONNEY ORDER NO. B000120867

ORDER NO.: BD00065688

PO# 11766

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

REF: C1116064-PLESA ANAHAUC

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
5	20	58451	1 6000 A105 TEE S SA/A105 Al 0.019 C 0.200 Cb 0.000 Co 0.001 Cr 0.040 Cu 0.020 Mn 1.110 Mo 0.000 Ni 0.010 P 0.007 S 0.019 Si 0.170 V 0.004 T/S(PSI) 75,000 Y/S(PSI) 50,625 EL(%) 28.05 RA(%) 62.30 Brinell 135 BHN 132 BHN
6	20	58509	2 6000 A105 TEE S SA/A105 Al 0.020 C 0.200 Co 0.002 Cr 0.040 Cu 0.060 Mn 1.070 Mo 0.000 Nb 0.015 Ni 0.020 P 0.006 S 0.023 Si 0.220 V 0.004 T/S(PSI) 78,750 Y/S(PSI) 48,750 EL(%) 30.00 RA(%) 62.05 Brinell 144 BHN 141 BHN
7	30	4825	2 3000 HOT-DIP UNAR T SA/A105 Al 0.024 C 0.210 Cb 0.000 Co 0.004 Cr 0.030 Cu 0.060 Mn 1.010 Mo 0.010 N 0.004 Nb 0.012 Ni 0.040 P 0.008 S 0.019 Si 0.180 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 73,700 Y/S(PSI) 44,600 EL(%) 31.50 RA(%) 55.40 Brinell 148 BHN 150 BHN
		4935	2 3000 HOT-DIP UNAR T SA/A105 Al 0.027 C 0.160 Cb 0.002 Co 0.006 Cr 0.130 Cu 0.180 Mn 1.080 Mo 0.030 N 0.011 Ni 0.070 P 0.009 S 0.021 Si 0.270 V 0.036 CE(Long Formula) = 0.40 T/S(PSI) 84,700 Y/S(PSI) 56,000 EL(%) 24.60 RA(%) 45.40 Brinell 174 BHN 172 BHN
		FEMALE	

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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
		5020	2 3000 HOT-DIP UNAR T
		NUT-LO	SA/A105
			Al 0.027 C 0.195 Cr 0.140 Cu 0.160 Mn 1.000 Mo 0.040 N 0.009 Nb 0.000 Ni 0.110 P 0.009 S 0.025 Si 0.240 V 0.002 CE(Long Formula) = 0.42 T/S(PSI) 73,244 Y/S(PSI) 47,862 EL(%) 25.00 RA(%) 43.00 Brinell 175 BHN 178 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-ROLLED CONDITION.
9. THE MATERIAL SUPPLIED IS IN THE AS-FORGED CONDITION.

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by Meloney Specht

Meloney Specht
 QUALITY PROCESS MANAGER