

CERTIFIED MILL TEST REPORT



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

LOG NO. F00000000007434

Page 1 of 7

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: PLESA ANAHUAC Y CIAS., S.A. DE C.V.

DATE 10/27/2010

CUSTOMER

BONNEY ORDER NO. B000084673

ORDER NO.: 9208

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

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
1	5	58075	1 X1 X 1/2 3000 A105 TEE T SA/A105 Al 0.027 C 0.200 Cb 0.000 Co 0.005 Cr 0.040 Cu 0.160 Mn 1.150 Mo 0.010 Nb 0.015 Ni 0.050 P 0.008 S 0.022 Si 0.160 V 0.005 CE(Long Formula) = 0.42 T/S 81,250 Y/S 51,250 EL 28.30 RA 61.30 Brinell 141 BHN 150 BHN
		58137	1 X1 X 1/2 3000 A105 TEE T SA/A105 Al 0.024 C 0.200 Cb 0.000 Co 0.003 Cr 0.040 Cu 0.160 Mn 1.020 Mo 0.007 N 0.004 Nb 0.020 Ni 0.040 P 0.010 S 0.023 Si 0.180 V 0.004 CE(Long Formula) = 0.39 T/S 78,125 Y/S 50,625 EL 29.40 RA 63.50 Brinell 150 BHN 147 BHN
		58137	1 X1 X 1/2 3000 A105 TEE T SA/A105 Al 0.024 C 0.200 Cb 0.000 Co 0.003 Cr 0.040 Cu 0.160 Mn 1.020 Mo 0.007 N 0.004 Nb 0.020 Ni 0.040 P 0.010 S 0.023 Si 0.180 V 0.004 CE(Long Formula) = 0.39 T/S 78,125 Y/S 50,625 EL 29.40 RA 63.50 Brinell 150 BHN 147 BHN
2	5	58102	3/4X 3/4X 1/2 3000 A105 TEE T SA/A105 Al 0.020 C 0.210 Cb 0.000 Co 0.004 Cr 0.030 Cu 0.080 Mn 1.010 Mo 0.000 N 0.005 Nb 0.013 Ni 0.020 P 0.005 S 0.018 Si 0.200 V 0.004 CE(Long Formula) = 0.39 T/S 78,750 Y/S 49,375 EL 31.80 RA 60.30 Brinell 162 BHN 165 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 Brenda Garlock

BRENDA GARLOCK
QUALITY PROCESS MANAGER

CMTR: REV2

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3	5	58029	11/2X11/2X1/2 3000 A105 TEE S	SA/A105 Al 0.025 C 0.200 Cb 0.000 Co 0.003 Cr 0.030 Cu 0.130 Mn 1.020 Mo 0.010 N 0.005 Nb 0.013 Ni 0.030 P 0.008 S 0.023 Si 0.220 Sn 0.010 V 0.004 CE(Long Formula) = 0.39 T/S 77,500 Y/S 48,750 EL 30.10 RA 61.30 Brinell 147 BHN 150 BHN
4	5	58015	11/2X11/2X 3/4 3M A105 TEE S	SA/A105 Al 0.023 C 0.200 Cb 0.000 Co 0.002 Cr 0.030 Cu 0.060 Mn 1.040 Mo 0.010 Nb 0.013 Ni 0.020 P 0.006 S 0.024 Si 0.220 V 0.004 CE(Long Formula) = 0.39 T/S 79,375 Y/S 48,750 EL 30.15 RA 62.05 Brinell 147 BHN 147 BHN
5	5	58070	1 X1 X 1/2 3000 A105 TEE S	SA/A105 Al 0.021 C 0.210 Cb 0.000 Co 0.004 Cr 0.040 Cu 0.140 Mn 1.000 Mo 0.010 N 0.005 Nb 0.013 Ni 0.040 P 0.008 S 0.018 Si 0.210 Sn 0.010 V 0.004 CE(Long Formula) = 0.40 T/S 81,000 Y/S 49,375 EL 29.70 RA 62.30 Brinell 162 BHN 156 BHN
		58113	1 X1 X 1/2 3000 A105 TEE S	SA/A105 Al 0.021 C 0.210 Cb 0.000 Co 0.004 Cr 0.030 Cu 0.110 Mn 1.010 Mo 0.010 N 0.006 Nb 0.012 Ni 0.030 P 0.007 S 0.019 Si 0.190 V 0.004 CE(Long Formula) = 0.40 T/S 78,375 Y/S 51,875 EL 32.10 RA 62.30 Brinell 165 BHN 165 BHN

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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
6	5	58070	1 X1 X 3/4 3000 A105 TEE S SA/A105 Al 0.021 C 0.210 Cb 0.000 Co 0.004 Cr 0.040 Cu 0.140 Mn 1.000 Mo 0.010 N 0.005 Nb 0.013 Ni 0.040 P 0.008 S 0.018 Si 0.210 Sn 0.010 V 0.004 CE(Long Formula) = 0.40 T/S 81,000 Y/S 49,375 EL 29.70 RA 62.30 Brinell 162 BHN 156 BHN
7	5	57951	2 X2 X 1/2 3000 A105 TEE S SA/A105 Al 0.020 C 0.200 Co 0.001 Cr 0.030 Cu 0.010 Mn 1.120 Mo 0.000 Nb 0.012 Ni 0.000 P 0.006 S 0.019 Si 0.240 V 0.000 CE(Long Formula) = 0.39 T/S 75,625 Y/S 48,750 EL 31.70 RA 63.00 Brinell 139 BHN 139 BHN
8	5	58078	2 X2 X 3/4 3000 A105 TEE S SA/A105 Al 0.025 C 0.190 Cb 0.000 Co 0.004 Cr 0.040 Cu 0.160 Mn 1.070 Mo 0.010 Nb 0.016 Ni 0.060 P 0.007 S 0.021 Si 0.180 V 0.004 CE(Long Formula) = 0.39 T/S 76,633 Y/S 51,506 EL 32.80 RA 64.02 Brinell 139 BHN 139 BHN
9	10	58078	11/2X11/2X3/4 3M HOT-DIP TEE T SA/A105 Al 0.025 C 0.190 Cb 0.000 Co 0.004 Cr 0.040 Cu 0.160 Mn 1.070 Mo 0.010 Nb 0.016 Ni 0.060 P 0.007 S 0.021 Si 0.180 V 0.004 CE(Long Formula) = 0.39 T/S 76,633 Y/S 51,506 EL 32.80 RA 64.02 Brinell 139 BHN 139 BHN

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10	10	57716	LX1X3/4 3M HOT-DIP TEE T SA/A105 Al 0.028 C 0.200 Co 0.004 Cr 0.040 Cu 0.140 Mn 1.040 Mo 0.020 Nb 0.012 Ni 0.040 P 0.007 S 0.020 Si 0.230 V 0.000 CE(Long Formula) = 0.40 T/S 81,250 Y/S 51,375 EL 29.10 RA 59.80 Brinell 144 BHN 144 BHN
11	20	58000	2 X 2 X 1 3M HOT-DIP TEE T SA/A105 Al 0.017 C 0.200 Co 0.004 Cr 0.060 Cu 0.130 Mn 1.000 Mo 0.010 Nb 0.013 Ni 0.040 P 0.009 S 0.017 Si 0.280 V 0.001 CE(Long Formula) = 0.39 T/S 79,500 Y/S 51,375 EL 29.25 RA 62.75 Brinell 141 BHN 141 BHN
12	5	58046	2 X 2 X 1 1/2 3M HOT-DIP TEE T SA/A105 Al 0.022 C 0.200 Cb 0.000 Co 0.005 Cr 0.050 Cu 0.190 Mn 1.030 Mo 0.010 N 0.006 Nb 0.015 Ni 0.050 P 0.007 S 0.018 Si 0.200 V 0.004 CE(Long Formula) = 0.40 T/S 76,250 Y/S 51,000 EL 32.70 RA 62.75 Brinell 141 BHN 144 BHN
13	5	57525	2 X 2 X 1/2 3M HOT-DIP TEE T SA/A105 Al 0.024 C 0.190 Co 0.003 Cr 0.080 Cu 0.140 Mn 1.010 Mo 0.020 Nb 0.016 Ni 0.030 P 0.011 S 0.020 Si 0.200 V 0.000 CE(Long Formula) = 0.39 T/S 80,000 Y/S 49,400 EL 29.00 RA 58.00 Brinell 156 BHN 153 BHN

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14	20	58046	2 X 2 X 3/4 3M HOT-DIP TEE T	SA/A105 Al 0.022 C 0.200 Cb 0.000 Co 0.005 Cr 0.050 Cu 0.190 Mn 1.030 Mo 0.010 N 0.006 Nb 0.015 Ni 0.050 P 0.007 S 0.018 Si 0.200 V 0.004 CE(Long Formula) = 0.40 T/S 76,250 Y/S 51,000 EL 32.70 RA 62.75 Brinell 141 BHN 144 BHN
		58047	2 X 2 X 3/4 3M HOT-DIP TEE T	SA/A105 Al 0.022 C 0.200 Cb 0.000 Co 0.006 Cr 0.050 Cu 0.210 Mn 1.060 Mo 0.010 N 0.006 Nb 0.013 Ni 0.050 P 0.006 S 0.018 Si 0.220 V 0.004 CE(Long Formula) = 0.41 T/S 78,750 Y/S 48,750 EL 30.65 RA 64.45 Brinell 150 BHN 147 BHN
15	30	4673	2 3000 A105 UNAR T	SA/A105 Al 0.021 C 0.200 Cb 0.000 Co 0.003 Cr 0.030 Cu 0.110 Mn 1.070 Mo 0.010 N 0.005 Nb 0.014 Ni 0.040 P 0.008 S 0.022 Si 0.200 V 0.004 CE(Long Formula) = 0.40 T/S 76,700 Y/S 45,100 EL 23.50 RA 33.90 Brinell 153 BHN 148 BHN
		4646	2 3000 A105 UNAR T	SA/A105 C 0.200 Cb 0.000 Co 0.002 Cr 0.040 Cu 0.050 Mn 1.040 Mo 0.000 N 0.003 Nb 0.015 Ni 0.020 P 0.007 S 0.024 Si 0.210 V 0.004 CE(Long Formula) = 0.39 T/S 75,000 Y/S 43,400 EL 35.00 RA 57.40 Brinell 163 BHN 163 BHN

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		4677	2 3000 A105 UNAR T	SA/A105
NUT-LH			Al 0.023 C 0.195 Cr 0.140 Cu 0.190 Mn 0.990 Mo 0.040 N 0.010 Nb 0.020 Ni 0.110 P 0.012 S 0.020 Si 0.260 V 0.002 CE(Long Formula) = 0.42 T/S 76,144 Y/S 48,732 EL 25.00 RA 60.00 Brinell 158 BHN 159 BHN	
		4463	2 3000 A105 UNAR T	SA/A105
NUT-LA			Al 0.024 C 0.190 Cr 0.130 Cu 0.100 Mn 0.950 Mo 0.020 Nb 0.001 Ni 0.070 P 0.010 S 0.024 Si 0.250 V 0.002 CE(Long Formula) = 0.39 T/S 75,000 Y/S 43,750 EL 31.90 RA 63.00 Brinell 132 BHN 135 BHN	
		4721	2 3000 A105 UNAR T	SA/A105
NUT-LJ			Al 0.025 C 0.200 Cb 0.000 Co 0.000 Cr 0.140 Cu 0.140 Mn 0.980 Mo 0.050 N 0.007 Ni 0.100 P 0.013 S 0.020 Si 0.250 V 0.002 CE(Long Formula) = 0.42 T/S 76,144 Y/S 53,228 EL 23.00 RA 42.00 Brinell 178 BHN 178 BHN	

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1. THE FITTINGS SUPPLIED ARE IN ACCORDANCE WITH PURCHASE ORDER SPECIFICATIONS.
2. THE MATERIAL SUPPLIED MEETS THE REQUIREMENTS OF NACE MRO175/ISO 15156-2.
3. CERTIFYING ASTM A105-09 / ASME SA105-07 EDITION.
4. THE PRODUCT SUPPLIED WAS INSPECTED IN ACCORDANCE WITH EN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT. (EUROPEAN STANDARD)
5. THE UNIT OF MEASURE FOR TENSILE AND YIELD (0.2%) STRENGTH ARE IN REPORTED IN PSI.
6. ELONGATION TEST RESULTS ARE OBTAINED USING STANDARD ROUND SPECIMEN, 2 INCH OR 50 MM GAGE LENGTH.

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