

# CERTIFIED MILL TEST REPORT



**The Best Value -  
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All The Time.**

**LOG NO.** F00000000017225

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

**DATE** 07/27/2011

**CUSTOMER**

**BONNEY ORDER NO.** B000101481

**ORDER NO.:** 10864

**SHIP TO:** AMERICA DISPATCH  
302 QUIVIRA DR  
INDUSTRIAL PARK  
LAREDO TX 78043

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.	CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
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1	34	58269	1 2000 A105 45EL T	SA/A105
Al 0.020 C 0.200 Co 0.003 Cr 0.040 Cu 0.120 Mn 1.040 Mo 0.010 N 0.005 Nb 0.014 Ni 0.030 P 0.008 S 0.019 Si 0.200 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 77,500 Y/S(PSI) 53,375 EL(%) 30.05 RA(%) 64.70 Brinell 141 BHN 141 BHN				

		58333	1 2000 A105 45EL T	SA/A105
Al 0.024 C 0.190 Co 0.003 Cr 0.040 Cu 0.120 Mn 1.010 Mo 0.010 N 0.007 Nb 0.016 Ni 0.040 P 0.007 S 0.016 Si 0.190 V 0.004 CE(Long Formula) = 0.38 T/S(PSI) 79,375 Y/S(PSI) 48,750 EL(%) 30.35 RA(%) 62.55 Brinell 150 BHN 150 BHN				

2	24	58176	1/2 2000 A105 45EL T	SA/A105
Al 0.025 C 0.190 Cb 0.000 Co 0.004 Cr 0.030 Cu 0.120 Mn 1.090 Mo 0.010 N 0.003 Nb 0.015 Ni 0.030 P 0.007 S 0.020 Si 0.180 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 76,875 Y/S(PSI) 53,000 EL(%) 30.15 RA(%) 65.85 Brinell 153 BHN 153 BHN				

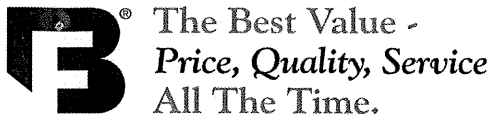
3	12	58310	11/2 2000 A105 45EL T	SA/A105
Al 0.024 C 0.200 Co 0.004 Cr 0.050 Cu 0.200 Mn 1.030 Mo 0.010 N 0.005 Nb 0.013 Ni 0.050 P 0.009 S 0.017 Si 0.190 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 78,375 Y/S(PSI) 53,000 EL(%) 30.00 RA(%) 61.55 Brinell 147 BHN 144 BHN				

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**

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4	200	58335	1 3000 A105 90EL S	SA/A105 Al 0.019 C 0.200 Co 0.003 Cr 0.030 Cu 0.140 Mn 1.010 Mo 0.010 N 0.008 Nb 0.016 Ni 0.040 P 0.008 S 0.016 Si 0.230 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 81,250 Y/S(PSI) 50,000 EL(%) 30.25 RA(%) 61.80 Brinell 159 BHN 159 BHN
5	150	58344	2 3000 A105 90EL S	SA/A105 Al 0.028 C 0.200 Co 0.004 Cr 0.030 Cu 0.090 Mn 1.030 Mo 0.020 N 0.005 Nb 0.015 Ni 0.070 P 0.006 S 0.022 Si 0.220 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 75,625 Y/S(PSI) 52,500 EL(%) 29.30 RA(%) 59.80 Brinell 137 BHN 135 BHN
6	222	58335	1 2000 A105 90EL T	SA/A105 Al 0.019 C 0.200 Co 0.003 Cr 0.030 Cu 0.140 Mn 1.010 Mo 0.010 N 0.008 Nb 0.016 Ni 0.040 P 0.008 S 0.016 Si 0.230 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 81,250 Y/S(PSI) 50,000 EL(%) 30.25 RA(%) 61.80 Brinell 159 BHN 159 BHN
7	24	58250	11/2 2000 A105 90EL T	SA/A105 Al 0.021 C 0.200 Cb 0.000 Co 0.003 Cr 0.030 Cu 0.110 Mn 1.000 Mo 0.010 N 0.007 Nb 0.015 Ni 0.030 P 0.006 S 0.018 Si 0.200 V 0.003 CE(Long Formula) = 0.38 T/S(PSI) 75,000 Y/S(PSI) 48,750 EL(%) 30.65 RA(%) 62.75 Brinell 156 BHN 153 BHN

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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
8	31	58350	2 2000 A105 90EL T <span style="float: right;">SA/A105</span> Al 0.015 C 0.200 Co 0.003 Cr 0.070 Cu 0.120 Mn 1.030 Mo 0.010 N 0.004 Nb 0.015 Ni 0.030 P 0.010 S 0.019 Si 0.190 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 76,250 Y/S(PSI) 48,750 EL(%) 27.40 RA(%) 62.75 Brinell 132 BHN 135 BHN
9	50	58307	2 X2 X 1 3000 A105 TEE S <span style="float: right;">SA/A105</span> Al 0.018 C 0.200 Co 0.004 Cr 0.030 Cu 0.080 Mn 1.010 Mo 0.010 N 0.004 Nb 0.014 Ni 0.020 P 0.008 S 0.019 Si 0.210 V 0.003 CE(Long Formula) = 0.38 T/S(PSI) 76,250 Y/S(PSI) 50,000 EL(%) 31.55 RA(%) 63.95 Brinell 139 BHN 139 BHN
10	100	58343	2 X2 X 3/4 3000 A105 TEE S <span style="float: right;">SA/A105</span> Al 0.019 C 0.200 Co 0.003 Cr 0.030 Cu 0.130 Mn 1.050 Mo 0.020 N 0.006 Nb 0.014 Ni 0.050 P 0.007 S 0.022 Si 0.180 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 73,125 Y/S(PSI) 51,875 EL(%) 27.90 RA(%) 60.80 Brinell 132 BHN 135 BHN
11	10	58128	2 2000 A105 TEE T <span style="float: right;">SA/A105</span> Al 0.033 C 0.210 Cb 0.000 Co 0.005 Cr 0.050 Cu 0.160 Mn 1.030 Mo 0.010 N 0.006 Nb 0.013 Ni 0.060 P 0.006 S 0.018 Si 0.210 V 0.003 CE(Long Formula) = 0.41 T/S(PSI) 79,774 Y/S(PSI) 51,508 EL(%) 29.10 RA(%) 63.57 Brinell 153 BHN 153 BHN

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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
12	72	58431	3/4 2000 A105 90EL T SA/A105 C 0.210 Cb 0.000 Co 0.003 Cr 0.030 Cu 0.090 Mn 1.010 Mo 0.010 Ni 0.060 P 0.008 S 0.020 Si 0.220 V 0.003 CE(Long Formula) = 0.40 T/S(PSI) 78,750 Y/S(PSI) 51,500 EL(%) 30.15 RA(%) 62.30 Brinell 144 BHN 139 BHN
13	6	58358	1 2000 A105 TEE T SA/A105 Al 0.003 C 0.200 Co 0.000 Cr 0.093 Cu 0.150 Mn 0.970 Mo 0.020 N 0.010 Nb 0.005 Ni 0.070 P 0.009 S 0.024 Si 0.220 V 0.023 CE(Long Formula) = 0.40 T/S(PSI) 78,750 Y/S(PSI) 51,875 EL(%) 29.85 RA(%) 63.75 Brinell 147 BHN 150 BHN
		58336	1 2000 A105 TEE T SA/A105 Al 0.020 C 0.200 Co 0.003 Cr 0.020 Cu 0.090 Mn 1.120 Mo 0.010 N 0.006 Nb 0.014 Ni 0.030 P 0.008 S 0.019 Si 0.180 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 78,750 Y/S(PSI) 50,625 EL(%) 29.60 RA(%) 62.75 Brinell 159 BHN 153 BHN
14	18	58294	1/2 2000 A105 TEE T SA/A105 Al 0.026 C 0.200 Co 0.004 Cr 0.060 Cu 0.140 Mn 1.020 Mo 0.010 N 0.005 Nb 0.014 Ni 0.040 P 0.011 S 0.023 Si 0.190 V 0.003 CE(Long Formula) = 0.40 T/S(PSI) 78,750 Y/S(PSI) 51,875 EL(%) 29.15 RA(%) 62.30 Brinell 150 BHN 153 BHN

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15	12	58244	11/2 2000 A105 TEE T	SA/A105 Al 0.022 C 0.180 Co 0.004 Cr 0.030 Cu 0.130 Mn 1.030 Mo 0.010 N 0.005 Ni 0.040 P 0.010 S 0.019 Si 0.180 V 0.004 CE(Long Formula) = 0.37 T/S(PSI) 76,875 Y/S(PSI) 47,500 EL(%) 31.20 RA(%) 64.45 Brinell 153 BHN 150 BHN
16	6	58384	3/4 2000 A105 TEE T	SA/A105 C 0.200 Cb 0.000 Co 0.002 Cr 0.030 Cu 0.080 Mn 1.030 Mo 0.010 Nb 0.014 Ni 0.030 P 0.007 S 0.021 Si 0.190 V 0.003 CE(Long Formula) = 0.39 T/S(PSI) 76,250 Y/S(PSI) 48,125 EL(%) 30.30 RA(%) 62.75 Brinell 153 BHN 150 BHN
17	18	58274	6-4X2 3M A105 FLEX S	SA/A105 Al 0.020 C 0.200 Co 0.003 Cr 0.040 Cu 0.120 Mn 1.040 Mo 0.010 N 0.005 Nb 0.014 Ni 0.030 P 0.008 S 0.019 Si 0.200 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 77,500 Y/S(PSI) 53,375 EL(%) 30.05 RA(%) 64.70 Brinell 141 BHN 141 BHN
18	18	58342	36-3X1 3M A105 FLEX S	SA/A105 Al 0.027 C 0.200 Co 0.004 Cr 0.040 Cu 0.090 Mn 1.050 Mo 0.010 N 0.004 Nb 0.016 Ni 0.030 P 0.007 S 0.021 Si 0.190 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 75,625 Y/S(PSI) 50,625 EL(%) 30.50 RA(%) 62.30 Brinell 132 BHN 132 BHN

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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.	CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
19	2	58272	36-3/4X1/2 3M A105 FLEX S	SA/A105 Al 0.022 C 0.190 Co 0.003 Cr 0.030 Cu 0.090 Mn 1.160 Mo 0.010 N 0.005 Nb 0.014 Ni 0.030 P 0.007 S 0.019 Si 0.190 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 79,500 Y/S(PSI) 55,000 EL(%) 27.00 RA(%) 64.00 Brinell 163 BHN 156 BHN
20	26	58265	36-11/2X3/4 3M A105 FLEX T	SA/A105 Al 0.022 C 0.190 Cb 0.000 Co 0.003 Cr 0.030 Cu 0.090 Mn 1.160 Mo 0.010 N 0.005 Nb 0.014 Ni 0.030 P 0.007 S 0.019 Si 0.190 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 79,500 Y/S(PSI) 55,000 EL(%) 27.00 RA(%) 64.00 Brinell 163 BHN 156 BHN

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 A105-10 / ASME SA105-10 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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