

# CERTIFIED MILL TEST REPORT



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

LOG NO. F00000000016415

Page 1 of 5

**BONNEY FORGE CORPORATION**

P.O. BOX 330 • 14496 CROGHAN PIKE • MOUNT UNION, PA 17086-0330

(814) 542-2545 • (800) 345-7546 • FAX (814) 542-4906

www.bonneyforge.com

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

**DATE** 07/01/2011

**CUSTOMER**

**BONNEY ORDER NO.** B000100207

**ORDER NO.:** 10738

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

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.	CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS.
1	100	58314	1 3000 HOT-DIP 90EL T	SA/A105 Al 0.024 C 0.190 Co 0.004 Cr 0.030 Cu 0.200 Mn 1.000 Mo 0.010 N 0.007 Nb 0.014 Ni 0.050 P 0.008 S 0.018 Si 0.200 V 0.003 CE(Long Formula) = 0.38 T/S(PSI) 76,250 Y/S(PSI) 53,750 EL(%) 28.95 RA(%) 65.40 Brinell 141 BHN 141 BHN
2	50	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
3	100	58250	11/2 3000 A105 90EL S	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
5	100	58276	2 3000 A105 90EL S	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

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**

# CERTIFIED MILL TEST REPORT

LOG NO. F00000000016415

Page 2 of 5

**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



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

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

**DATE** 07/01/2011

**CUSTOMER**

**BONNEY ORDER NO.** B000100207

**ORDER NO.:** 10738

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

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.	CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS
6	20	58369	2 6000 A105 90EL S	SA/A105 C 0.200 Cb 0.000 Co 0.009 Cr 0.040 Cu 0.140 Mn 1.130 Mo 0.020 Ni 0.150 P 0.008 S 0.020 Si 0.170 V 0.004 CE(Long Formula) = 0.42 T/S(PSI) 78,750 Y/S(PSI) 51,875 EL(%) 28.90 RA(%) 63.95 Brinell 150 BHN 150 BHN
7	20	58327	3/4 6000 A105 90EL S	SA/A105 Al 0.019 C 0.190 Co 0.004 Cr 0.030 Cu 0.120 Mn 1.010 Mo 0.010 N 0.005 Nb 0.013 Ni 0.030 P 0.007 S 0.016 Si 0.220 V 0.004 CE(Long Formula) = 0.38 T/S(PSI) 79,375 Y/S(PSI) 50,000 EL(%) 28.40 RA(%) 64.20 Brinell 153 BHN 153 BHN
8	30	58361	1X1X1/2 3M HOT-DIP TEE T	SA/A105 Al 0.030 C 0.200 Co 0.004 Cr 0.040 Cu 0.100 Mn 1.050 Mo 0.010 N 0.006 Nb 0.015 Ni 0.050 P 0.008 S 0.017 Si 0.200 V 0.003 CE(Long Formula) = 0.40 T/S(PSI) 78,750 Y/S(PSI) 50,625 EL(%) 29.45 RA(%) 61.30 Brinell 150 BHN 153 BHN
9	50	58259	1 3000 A105 TEE S	SA/A105 Al 0.022 C 0.190 Cb 0.000 Co 0.004 Cr 0.040 Cu 0.100 Mn 1.020 Mo 0.010 N 0.005 Nb 0.012 Ni 0.040 P 0.007 S 0.016 Si 0.180 V 0.004 CE(Long Formula) = 0.38 T/S(PSI) 83,750 Y/S(PSI) 51,250 EL(%) 30.00 RA(%) 63.25 Brinell 159 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 Kylee Ruiz

**Kylee Ruiz**  
**QUALITY PROCESS MANAGER**

**CERTIFIED MILL TEST REPORT**



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

**LOG NO.** F00000000016415

Page 3 of 5

**BONNEY FORGE CORPORATION**

P.O. BOX 330 • 14496 CROGHAN PIKE • MOUNT UNION, PA 17066-0330

(814) 542-2545 • (800) 345-7546 • FAX (814) 542-4908

www.bonneyforge.com

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

**DATE** 07/01/2011

**CUSTOMER**


**BONNEY ORDER NO.** B000100207

**ORDER NO.:** 10738

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

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS.
10	50	58307	<p>2 3000 A105 TEE S SA/A105</p> <p>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</p>
		58343	<p>2 3000 A105 TEE S SA/A105</p> <p>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</p>
11	20	4625	<p>1/2 3000 HOT-DIP UNAR T SA/A105</p> <p>MALE Al 0.022 C 0.210 Cb 0.000 Co 0.002 Cr 0.030 Cu 0.040 Mn 1.020 Mo 0.000 Nb 0.013 Ni 0.020 P 0.007 S 0.024 Si 0.220 V 0.003 CE(Long Formula) = 0.39 T/S(PSI) 78,700 Y/S(PSI) 48,300 EL(%) 37.00 RA(%) 61.60 Brinell 163 BHN 163 BHN</p>
		4628	<p>1/2 3000 HOT-DIP UNAR T SA/A105</p> <p>FEMALE Al 0.022 C 0.210 Cb 0.000 Co 0.002 Cr 0.030 Cu 0.040 Mn 1.020 Mo 0.000 Nb 0.013 Ni 0.020 P 0.007 S 0.024 Si 0.220 V 0.003 CE(Long Formula) = 0.39 T/S(PSI) 81,000 Y/S(PSI) 46,800 EL(%) 30.00 RA(%) 41.30 Brinell 163 BHN 167 BHN</p>

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  
**QUALITY PROCESS MANAGER**

# CERTIFIED MILL TEST REPORT



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

**LOG NO.** F00000000016415

Page 4 of 5

**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** 07/01/2011


**CUSTOMER  
ORDER NO.:** 10738

**BONNEY ORDER NO.** B000100207

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

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS.
		4245	1/2 3000 HOT-DIP UNAR T SA/A105
		NUT-EC	Al 0.023 C 0.130 Cr 0.130 Cu 0.140 Mn 0.930 Mo 0.030 Nb 0.001 Ni 0.100 P 0.017 S 0.024 Si 0.260 V 0.002 CE(Long Formula) = 0.33 T/S(PSI) 78,299 Y/S(PSI) 49,670 EL(%) 30.65 RA(%) 65.58 Brinell 141 BHN 141 BHN
12	30	58196	11/4 3000 HOT-DIP 90EL T SA/A105
			Al 0.022 C 0.200 Co 0.003 Cr 0.030 Cu 0.080 Mn 1.040 Mo 0.010 N 0.004 Nb 0.014 Ni 0.030 P 0.008 S 0.017 Si 0.220 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 80,000 Y/S(PSI) 48,750 EL(%) 30.00 RA(%) 60.80 Brinell 147 BHN 150 BHN
		58370	11/4 3000 HOT-DIP 90EL T SA/A105
			Al 0.022 C 0.190 Co 0.004 Cr 0.050 Cu 0.100 Mn 1.020 Mo 0.010 N 0.004 Nb 0.016 Ni 0.040 P 0.007 S 0.024 Si 0.180 V 0.003 CE(Long Formula) = 0.38 T/S(PSI) 75,625 Y/S(PSI) 47,500 EL(%) 31.35 RA(%) 63.50 Brinell 139 BHN 139 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  
**QUALITY PROCESS MANAGER**

CMTR: REV2

# CERTIFIED MILL TEST REPORT



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

LOG NO. F00000000016415

Page 5 of 5

**BONNEY FORGE CORPORATION**

P.O. BOX 330 • 14496 CROGHAN PIKE • MOUNT UNION, PA 17066-0330

(814) 542-2545 • (800) 345-7546 • FAX (814) 542-4908

www.bonneyforge.com

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

**DATE** 07/01/2011

**CUSTOMER**

**BONNEY ORDER NO.** B000100207


**ORDER NO.:** 10738

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

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS.
------	----------	---------	--

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 REPORTED IN PSI.
6. ELONGATION TEST RESULTS ARE OBTAINED USING STANDARD ROUND SPECIMEN, 2 INCH OR 50 MM GAGE LENGTH.

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  
QUALITY PROCESS MANAGER

CMTR: REV2