

CERTIFIED MILL TEST REPORT



**The Best Value -
Price, Quality, Service
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LOG NO. F0000000016414

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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 07/01/2011

CUSTOMER

BONNEY ORDER NO. B000100351

ORDER NO.: 10769

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

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

1	8	58102	1 3000 LF2 TEE S	SA/A350 LF2 CL1
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(PSI) 71,875 Y/S(PSI) 48,375 EL(%) 32.00 RA(%) 63.00				
Brinell 144 BHN 144 BHN				
Charpy -50 F 23/23/20 (Ft-Lbs)				
Average 22.00				

		58113	1 3000 LF2 TEE S	SA/A350 LF2 CL1
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(PSI) 72,500 Y/S(PSI) 51,250 EL(%) 33.20 RA(%) 63.75				
Brinell 153 BHN 153 BHN				
Charpy -50 F 33/23/37 (Ft-Lbs)				
Average 31.00				

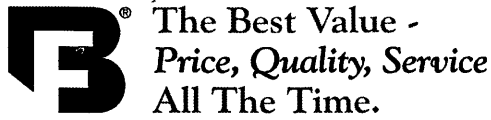
2	8	57700	2 3000 LF2 TEE S	SA/A350 LF2 CL1
Al 0.026 C 0.190 Co 0.002 Cr 0.030 Cu 0.080 Mn 1.080 Mo 0.010 Nb 0.017				
Ni 0.020 P 0.006 S 0.022 Si 0.200 V 0.000				
CE(Long Formula) = 0.38				
T/S(PSI) 77,261 Y/S(PSI) 51,633 EL(%) 31.90 RA(%) 65.43				
Brinell 132 BHN 135 BHN				
Charpy -50 F 30/45/42 (Ft-Lbs)				
Average 39.00				

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

CERTIFIED MILL TEST REPORT



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LAREDO TX 78043

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
3	8	58212	1 3000 LF2 90EL S SA/A350 LF2 CL1 Al 0.028 C 0.190 Cb 0.000 Co 0.005 Cr 0.130 Cu 0.250 Mn 1.000 Mo 0.020 N 0.006 Nb 0.012 Ni 0.080 P 0.012 S 0.019 Si 0.200 V 0.003 CE(Long Formula) = 0.41 T/S(PSI) 75,000 Y/S(PSI) 50,000 EL(%) 31.15 RA(%) 59.55 Brinell 135 BHN 135 BHN Charpy -50 F 42/66/51 (Ft-Lbs) Average 53.00
4	2	4821	1/2 3000 LF2 COUP T SA/A350 LF2 CL1 Al 0.028 C 0.190 Cb 0.000 Co 0.005 Cr 0.130 Cu 0.250 Mn 1.000 Mo 0.020 N 0.006 Nb 0.012 Ni 0.080 P 0.012 S 0.019 Si 0.200 V 0.003 CE(Long Formula) = 0.41 T/S(PSI) 76,875 Y/S(PSI) 51,250 EL(%) 32.95 RA(%) 64.45 Brinell 137 BHN 137 BHN Charpy -50 F 76/52/32 (Ft-Lbs) Average 53.30

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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
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1. THE FITTINGS SUPPLIED ARE IN ACCORDANCE WITH PURCHASE ORDER SPECIFICATIONS.
2. CERTIFYING TO ASTM A350 LF2 07 REVISION.
3. THE MATERIAL OF THE FITTINGS SUPPLIED IS ASTM A350-LF2 BUT MEETS THE REQUIREMENTS OF ASME SA350-LF2.
4. THE CHARPY V-NOTCH IMPACT TEST WAS PERFORMED AT -50 DEGREES FAHRENHEIT IN ACCORDANCE WITH A350-LF2.
5. THE MATERIAL SUPPLIED AS A350 LF2 CL1 MEETS THE REQUIREMENTS OF BOTH NACE MRO103-2007 AND NACE MRO175/ISO 15156-2.
6. THE MATERIAL SUPPLIED WAS NORMALIZED IN ACCORDANCE WITH ASTM A350 HEAT TREATING REQUIREMENTS.
7. THE PRODUCT SUPPLIED WAS INSPECTED IN ACCORDANCE WITH EN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT. (EUROPEAN STANDARD)
8. THE UNIT OF MEASURE FOR TENSILE AND YIELD (0.2%) STRENGTH ARE IN REPORTED IN PSI.
9. ELONGATION TEST RESULTS ARE OBTAINED USING STANDARD ROUND SPECIMEN, 2 INCH OR 50 MM GAGE LENGTH.

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QUALITY PROCESS MANAGER

CMTR: REV2