

# CERTIFIED MILL TEST REPORT



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

LOG NO. F00000000063625

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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: WFI INTERNATIONAL, INC.

DATE 09/24/2014

CUSTOMER

BONNEY ORDER NO. B000174184

ORDER NO.: BD00070829

PO# 272

SHIP TO: AMERICA DISPATCH  
302 QUIVIRA DRIVE  
LAREDO TX 78045  
United States

REF: C1413444

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
1	4	58689	1 1/2 3000 LF2 45EL S SA/A350 LF2 CL1 Al 0.028 C 0.205 Co 0.002 Cr 0.030 Cu 0.070 Mn 1.040 Mo 0.005 N 0.002 Nb 0.016 Ni 0.020 P 0.005 S 0.017 Si 0.230 V 0.003 CE(Long Formula) = 0.39 T/S(PSI) 75,119 Y/S(PSI) 49,142 EL(%) 32.15 RA(%) 62.65 Brinell 130 BHN 130 BHN Charpy -50 F 34/12/16 (Ft-Lbs) Average 20.70
4	10	6611	1/2 3M LF2 COUP S SA/A350 LF2 CL1 Al 0.034 C 0.200 Co 0.005 Cr 0.030 Cu 0.070 Mn 1.030 Mo 0.006 N 0.004 Nb 0.011 Ni 0.030 P 0.005 S 0.021 Si 0.200 V 0.003 CE(Long Formula) = 0.39 T/S(PSI) 73,801 Y/S(PSI) 50,296 EL(%) 35.30 RA(%) 59.46 Brinell 130 BHN 130 BHN Charpy -50 F 15/17/16 (Ft-Lbs) Average 16.00

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

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ITEM QUANTITY LOT NO.

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

1. THE MATERIAL SUPPLIED IS FREE FROM MERCURY AND RADIUM CONTAMINATION.
2. THE FITTINGS SUPPLIED ARE IN ACCORDANCE WITH PURCHASE ORDER SPECIFICATIONS.
3. CERTIFYING TO ASTM A350 LF2 07 REVISION.
4. THE MATERIAL OF THE FITTINGS SUPPLIED IS ASTM A350-LF2 BUT MEETS THE REQUIREMENTS OF ASME SA350-LF2.
5. THE CHARPY V-NOTCH IMPACT TEST WAS PERFORMED AT -50 DEGREES FAHRENHEIT IN ACCORDANCE WITH A350-LF2.
6. THE MATERIAL SUPPLIED AS A350 LF2 CL1 MEETS THE REQUIREMENTS OF BOTH NACE MRO103-2007 AND NACE MRO175/ISO 15156-2.
7. THE MATERIAL SUPPLIED WAS NORMALIZED IN ACCORDANCE WITH ASTM A350 HEAT TREATING REQUIREMENTS.
8. THE FITTINGS SUPPLIED WERE NOT SUBJECTED TO ANY FORM OF WELD REPAIR.
9. THE PRODUCT SUPPLIED WAS INSPECTED IN ACCORDANCE WITH EN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT. (EUROPEAN STANDARD)
10. ELONGATION TEST RESULTS ARE OBTAINED USING STANDARD ROUND SPECIMEN, 2 INCH OR 50 MM GAGE LENGTH.

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by

*Meloney Specht*

Meloney Specht  
QUALITY PROCESS MANAGER

CMTR: REV2