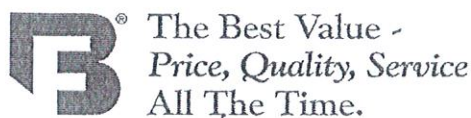


# CERTIFIED MILL TEST REPORT



LOG NO. F00000000066029

Page 1 of 3

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 11/18/2014

CUSTOMER

BONNEY ORDER NO. B000177887

ORDER NO.: BD00071251

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

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.	CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
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1	50	59414	1 3000 HOT-DIP 90EL T	SA/A105
Al 0.027 C 0.200 Co 0.004 Cr 0.030 Cu 0.040 Mn 1.080 Mo 0.005 N 0.004				
Nb 0.014 Ni 0.020 P 0.005 S 0.019 Si 0.240 V 0.004				
CE(Long Formula) = 0.39				
T/S(PSI) 78,330 Y/S(PSI) 49,809 EL(%) 30.85 RA(%) 60.19				
Brinell 139 BHN 144 BHN				

		59522	1 3000 HOT-DIP 90EL T	SA/A105
Al 0.028 C 0.200 Co 0.004 Cr 0.070 Cu 0.080 Mn 1.100 Mo 0.006 N 0.004				
Nb 0.016 Ni 0.040 P 0.015 S 0.018 Si 0.200 V 0.005				
CE(Long Formula) = 0.41				
T/S(PSI) 75,983 Y/S(PSI) 52,364 EL(%) 35.20 RA(%) 61.68				
Brinell 139 BHN 137 BHN				

2	20	59643	1 1/2 6000 A105 90EL S	SA/A105
Al 0.028 C 0.190 Co 0.004 Cr 0.060 Cu 0.140 Mn 0.990 Mo 0.016 N 0.004				
Nb 0.012 Ni 0.070 P 0.006 S 0.017 Si 0.210 V 0.003				
CE(Long Formula) = 0.38				
T/S(PSI) 77,540 Y/S(PSI) 48,251 EL(%) 33.95 RA(%) 63.62				
Brinell 144 BHN 141 BHN				

3	50	59348	2 6000 A105 90EL S	SA/A105
Al 0.023 C 0.200 Co 0.004 Cr 0.030 Cu 0.070 Mn 1.060 Mo 0.004 N 0.004				
Nb 0.012 Ni 0.050 P 0.004 S 0.018 Si 0.210 V 0.004				
CE(Long Formula) = 0.39				
T/S(PSI) 78,232 Y/S(PSI) 51,462 EL(%) 34.50 RA(%) 61.71				
Brinell 132 BHN 132 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 *Kenzie Grove*  
Kenzie Grove  
QUALITY PROCESS MANAGER

CMTR: REV2

# CERTIFIED MILL TEST REPORT



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DATE 11/18/2014

CUSTOMER

BONNEY ORDER NO. B000177887

ORDER NO.: BD00071251

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

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.				CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:					
4	100	59327	3/4 6000 A105 90EL S	SA/A105								
			Al 0.030	C 0.200	Co 0.005	Cr 0.050	Cu 0.080	Mn 0.990	Mo 0.006	N 0.003		
			Nb 0.011	Ni 0.030	P 0.007	S 0.016	Si 0.190	V 0.003				
			CE(Long Formula) =		0.38							
			T/S(PSI) 77,121	Y/S(PSI) 49,334	EL(%) 34.25	RA(%) 60.72						
			Brinell	135 BHN	137 BHN							
5	50	59600	2 3000 A105 TEE T	SA/A105								
			Al 0.032	C 0.200	Co 0.002	Cr 0.040	Cu 0.050	Mn 0.980	Mo 0.005	N 0.003		
			Nb 0.012	Ni 0.030	P 0.007	S 0.021	Si 0.240	V 0.004				
			CE(Long Formula) =		0.38							
			T/S(PSI) 73,056	Y/S(PSI) 46,385	EL(%) 34.00	RA(%) 61.68						
			Brinell	137 BHN	137 BHN							
		59564	2 3000 A105 TEE T	SA/A105								
			Al 0.029	C 0.200	Co 0.003	Cr 0.040	Cu 0.070	Mn 1.010	Mo 0.004	N 0.003		
			Nb 0.015	Ni 0.020	P 0.007	S 0.024	Si 0.240	V 0.004				
			CE(Long Formula) =		0.38							
			T/S(PSI) 73,622	Y/S(PSI) 48,879	EL(%) 34.55	RA(%) 62.75						
			Brinell	135 BHN	135 BHN							
6	20	59420	1 6000 A105 TEE S	SA/A105								
			Al 0.028	C 0.210	Co 0.004	Cr 0.040	Cu 0.050	Mn 1.030	Mo 0.008	N 0.004		
			Nb 0.012	Ni 0.020	P 0.009	S 0.022	Si 0.270	V 0.004				
			CE(Long Formula) =		0.40							
			T/S(PSI) 78,364	Y/S(PSI) 50,155	EL(%) 31.20	RA(%) 59.44						
			Brinell	137 BHN	135 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 *Kenzie Grove*  
Kenzie Grove  
QUALITY PROCESS MANAGER

CMTR: REV2



# CERTIFIED MILL TEST REPORT



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www.bonneyforge.com

CUSTOMER: WFI INTERNATIONAL, INC.

DATE 11/18/2014

CUSTOMER

BONNEY ORDER NO. B000177887

ORDER NO.: BD00071251

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

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.	CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
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7	30	59569	3/4 6000 A105 TEE S	SA/A105
				Al 0.027 C 0.210 Co 0.002 Cr 0.090 Cu 0.020 Mn 1.000 Mo 0.007 N 0.004 Nb 0.012 Ni 0.020 P 0.005 S 0.017 Si 0.210 V 0.003 CE(Long Formula) = 0.40 T/S(PSI) 76,714 Y/S(PSI) 50,227 EL(%) 35.20 RA(%) 54.31 Brinell 141 BHN 141 BHN

1. THE MATERIAL SUPPLIED IS FREE FROM MERCURY AND RADIUM CONTAMINATION.
2. THE FITTINGS SUPPLIED ARE IN ACCORDANCE WITH PURCHASE ORDER SPECIFICATIONS.
3. THE MATERIAL SUPPLIED MEETS THE REQUIREMENTS OF NACE MRO175/ISO 15156-2.
4. CERTIFYING ASTM A105-13 / ASME SA105-10 EDITION.
5. THE FITTINGS SUPPLIED WERE NOT SUBJECTED TO ANY FORM OF WELD REPAIR.
6. THE PRODUCT SUPPLIED WAS INSPECTED IN ACCORDANCE WITH EN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT. (EUROPEAN STANDARD)
7. 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.

CMTR: REV2

by *Kenzie Grove*  
 Kenzie Grove  
 QUALITY PROCESS MANAGER