

CERTIFIED MILL TEST REPORT



The Best Value -
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LOG NO. F00000000073645

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 06/08/2015

CUSTOMER

BONNEY ORDER NO. B000187829

ORDER NO.: BD00071991

PO# 347

SHIP TO: PLESA STEEL INC
5100 WESTHEIMER ROAD
SUITE 200
HOUSTON TX 77056
United States

REF:C1515944

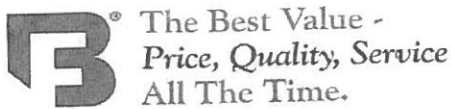
ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.	CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:																
				Al	C	Co	Cr	Cu	Mn	Mo	N	Ni	P	S	Si	V	Y/S(PSI)	EL(%)	RA(%)	Brinell
1	30	59807	1 X1 X 3/4 3000 A105 TEE S	SA/A105																
				Al 0.019	C 0.200	Co 0.000	Cr 0.040	Cu 0.040	Mn 1.000	Mo 0.004										
				Nb 0.012	Ni 0.020	P 0.007	S 0.020	Si 0.230	V 0.003											
				CE(Long Formula) =		0.38														
				T/S(PSI)	79,208	Y/S(PSI)	52,258	EL(%)	34.50	RA(%)	61.92									
				Brinell		132 BHN		132 BHN												
2	50	59592	2 3000 A105 TEE S	SA/A105																
				Al 0.026	C 0.200	Co 0.008	Cr 0.050	Cu 0.060	Mn 1.000	Mo 0.009	N 0.003									
				Nb 0.012	Ni 0.040	P 0.007	S 0.020	Si 0.230	V 0.004											
				CE(Long Formula) =		0.39														
				T/S(PSI)	75,572	Y/S(PSI)	49,275	EL(%)	33.95	RA(%)	62.68									
				Brinell		139 BHN		141 BHN												
3	100	59698	3/4 3000 A105 90EL S	SA/A105																
				Al 0.019	C 0.210	Co 0.003	Cr 0.030	Cu 0.050	Mn 1.060	Mo 0.003	N 0.003									
				Nb 0.015	Ni 0.020	P 0.005	S 0.018	Si 0.230	V 0.003											
				CE(Long Formula) =		0.40														
				T/S(PSI)	75,261	Y/S(PSI)	48,253	EL(%)	33.90	RA(%)	63.23									
				Brinell		139 BHN		139 BHN												
4	50	59720	1 1/2 3000 A105 90EL T	SA/A105																
				Al 0.024	C 0.210	Co 0.003	Cr 0.030	Cu 0.060	Mn 1.040	Mo 0.006	N 0.003									
				Nb 0.014	Ni 0.020	P 0.006	S 0.024	Si 0.240	V 0.003											
				CE(Long Formula) =		0.40														
				T/S(PSI)	74,642	Y/S(PSI)	48,334	EL(%)	34.95	RA(%)	57.83									
				Brinell		137 BHN		137 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 Lavonne Brown
Lavonne Brown
QUALITY PROCESS MANAGER

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LOG NO. F00000000073645 Page 2 of 3



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 HOUSTON TX 77056
 United States

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.	CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
5	25	59715	11/2 3000 HOT-DIP 90EL T	SA/A105
Al 0.025 C 0.210 Co 0.003 Cr 0.040 Cu 0.060 Mn 1.040 Mo 0.007 N 0.004 Nb 0.012 Ni 0.020 P 0.006 S 0.020 Si 0.260 V 0.003 CE(Long Formula) = 0.40 T/S(PSI) 77,389 Y/S(PSI) 49,222 EL(%) 33.55 RA(%) 62.26 Brinell 132 BHN 132 BHN				
6	100	59832	2 3000 A105 90EL S	SA/A105
Al 0.028 C 0.200 Cb 0.000 Co 0.003 Cr 0.040 Cu 0.060 Mn 1.050 Mo 0.004 Nb 0.011 Ni 0.020 P 0.005 S 0.019 Si 0.210 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 80,584 Y/S(PSI) 52,411 EL(%) 33.35 RA(%) 60.44 Brinell 137 BHN 139 BHN				
7	10	59675	2 X 2 X 1/2 3000 A105 TEE T	SA/A105
Al 0.027 C 0.210 Co 0.006 Cr 0.060 Cu 0.120 Mn 1.010 Mo 0.010 N 0.005 Nb 0.013 Ni 0.050 P 0.008 S 0.022 Si 0.210 V 0.003 CE(Long Formula) = 0.40 T/S(PSI) 79,557 Y/S(PSI) 51,244 EL(%) 33.85 RA(%) 55.73 Brinell 147 BHN 141 BHN				
8	50	59624	2 X 2 X 1 3000 A105 TEE S	SA/A105
Al 0.028 C 0.200 Co 0.005 Cr 0.040 Cu 0.090 Mn 0.980 Mo 0.008 N 0.004 Nb 0.015 Ni 0.040 P 0.006 S 0.018 Si 0.220 V 0.003 CE(Long Formula) = 0.38 T/S(PSI) 73,927 Y/S(PSI) 48,703 EL(%) 33.90 RA(%) 56.61 Brinell 139 BHN 139 BHN				

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CMTR: REV2

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Page 3 of 3



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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
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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 A105-14 / ASME SA105-13 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.
8. THE MATERIAL SUPPLIED IS IN THE AS-FORGED CONDITION.

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by

Lavonne Brown

Lavonne Brown

QUALITY PROCESS MANAGER

CMTR: REV2