

59582

1/2 X 8-3 3000# O.N.E.T.S

P.O. 135095

CERTIFIED MILL TEST REPORT



The Best Value -
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All The Time.

LOG NO. F00000000064542

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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: MRC CANADA ULC

DATE 10/14/2014

CUSTOMER

BONNEY ORDER NO. B000174921

ORDER NO.: S759271927

SHIP TO: MRC CANADA ULC - BRCH 759

502-25 AVENUE

NISKU AB T9E 0K6

Canada

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
54 18C10822	2	6921	4 3M A105N COUP T SA/A105N Al 0.029 C 0.270 Co 0.000 Cr 0.080 Cu 0.180 Mn 0.840 Mo 0.040 Ni 0.100 P 0.007 S 0.018 Si 0.250 V 0.001 CE(Long Formula) = 0.45 T/S(PSI) 78,862 Y/S(PSI) 51,125 EL(%) 33.60 RA(%) 57.13 Brinell 141 BHN 147 BHN
54 18C10822	118	6922	4 3M A105N COUP T SA/A105N Al 0.001 C 0.260 Co 0.000 Cr 0.140 Cu 0.200 Mn 0.850 Mo 0.030 Ni 0.090 P 0.014 S 0.018 Si 0.250 V 0.001 CE(Long Formula) = 0.46 T/S(PSI) 78,005 Y/S(PSI) 50,850 EL(%) 33.70 RA(%) 58.18 Brinell 139 BHN 139 BHN
179 18C13243	500	59582	8 -3 X 1/2 3000 A105N THRD T SA/A105N Al 0.027 C 0.210 Co 0.000 Cr 0.040 Cu 0.050 Mn 1.020 Mo 0.006 Nb 0.014 Ni 0.013 P 0.006 S 0.021 Si 0.210 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 73,011 Y/S(PSI) 48,661 EL(%) 36.10 RA(%) 64.90 Brinell 132 BHN 135 BHN
220 18C13975	50	59576	6 X 2 XS A105N WELD B SA/A105N Al 0.028 C 0.210 Co 0.002 Cr 0.040 Cu 0.050 Mn 0.990 Mo 0.006 N 0.003 Nb 0.012 Ni 0.020 P 0.004 S 0.021 Si 0.220 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 73,704 Y/S(PSI) 50,904 EL(%) 36.85 RA(%) 59.09 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

Meloney Specht
QUALITY PROCESS MANAGER

CMTR: REV2

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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. CERTIFYING TO ASTM A350 LF2 07 REVISION.
3. THE MATERIAL SUPPLIED IDENTIFIED AS A105N WAS NORMALIZED IN ACCORDANCE WITH ASTM A105 HEAT TREATING REQUIREMENTS.
4. THE MATERIAL SUPPLIED AS A105N MEETS THE REQUIREMENTS OF BOTH NACE MR0103-2007 AND NACE MR0175/ISO 15156-2.
5. CERTIFYING ASTM A105-13 / ASME SA105-10 EDITION.
6. THE MATERIAL OF THE FITTINGS SUPPLIED IS ASTM A350-LF2 BUT MEETS THE REQUIREMENTS OF ASME SA350-LF2.
7. THE CHARPY V-NOTCH IMPACT TEST WAS PERFORMED AT -50 DEGREES FAHRENHEIT IN ACCORDANCE WITH A350-LF2.
8. THE MATERIAL SUPPLIED AS A350 LF2 CL1 MEETS THE REQUIREMENTS OF BOTH NACE MRO103-2007 AND NACE MRO175/ISO 15156-2.
9. THE MATERIAL SUPPLIED WAS NORMALIZED IN ACCORDANCE WITH ASTM A350 HEAT TREATING REQUIREMENTS.
10. THE PRODUCT SUPPLIED WAS INSPECTED IN ACCORDANCE WITH EN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT. (EUROPEAN STANDARD)
11. THE UNIT OF MEASURE FOR TENSILE AND YIELD (0.2%) STRENGTH ARE REPORTED IN PSI.
12. ELONGATION TEST RESULTS ARE OBTAINED USING STANDARD ROUND SPECIMEN, 2 INCH OR 50 MM GAGE LENGTH.

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by

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QUALITY PROCESS MANAGER

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