

**SN# 20TEST03**

PIPE OD: 20.00"  
 PIPE WALL THICKNES: XS .500"  
 PIPE GRADE: X65M



NO	REVISION	DATE
A	INITIAL RELEASE	8/14/2018
	DRAWN	CHECK
	JAK	

<b>RIDGE RUNNER PLS</b>			
51 SCOTT'S RUN ROAD - MAIDESVILLE - WEST VIRGINIA - 26541			
REFERENCE DRAWING			
WELD ON TEST HEADER 100% SMYS 3250 PSI			
SN#20TEST03			
THIS DRAWING CAN NOT BE REPRODUCED WITHOUT PRIOR CONSENT OF RIDGE RUNNER PIPELINE SERVICES, LLC.		DATE	DRAWING NO.
		8/14/2018	20TEST03 SHEET1OF1
SCALE			REVISION
NTS			A



**AMERICAN STEEL PIPE (ASP)**  
 A division of American Cast Iron Pipe Co.,  
 1501 31st Avenue North, Birmingham, AL 35207  
**QUALIFICATION REPORT OF SHIPMENT**  
 (IN ACCORDANCE WITH ISO 10474/EN 10204 "Type 3.1")

DATE: 24/MAY/2017

CUSTOMER ADDRESS: PIONEER PIPE  
25 COLLEGE PARK COVE

Customer Order Number  
M 20010168

ASP Order Number  
S112231

JACKSON, TN 38301

SPECIAL NOTES

NDT tested using an Ultrasonic test method calibrated ID & OD N-10 NOTCHES.  
 Hydrostatic test duration 10 seconds. Max allowable C.E. PCM .25.  
 Minimum weld seam anneal temperature 1600 degrees F for all pipe.  
 Charpy acceptance criteria Min. Energy 15/Heat. Min. shear area N/A.

LINE	SIZE	WALL	SHIP. NO	SHIPMENT DESCRIPTION	SPECIFICATIONS	GRADE
3	20.00	.500	1 - 41	HFW API LINE PIPE	API 5L, PSL 2	X65M

All tests are from the body of the pipe in the transverse direction unless otherwise noted.  
Standard flat tensile gage length 1-1/2" x 2". Pipe body test location: Tensile T180; CVN T90.

HEAT	C	MN	P	S	CB	SI	TI	CU	NI	MO	CR	V	AL	B	N	CA	C.E.	Pipe Coil
NG1976	LINE 3			MFG: Nucor (Decatur)													EDITION REFERENCE 5	
H=	.050	1.380	.012	.002	.042	.212	.008	.160	.040	.020	.060	.074	.023	.0002	.0069	.0012	.147	8/15
P=	.052	1.390	.009	.001	.046	.226	.008	.141	.046	.020	.056	.078	.021	.0002	.0000	.0021	.150	0024
P=	.055	1.310	.007	.002	.048	.217	.007	.114	.041	.015	.041	.075	.019	.0002	.0000	.0036	.146	0025
P=	.045	1.390	.009	.002	.046	.213	.009	.158	.047	.022	.063	.077	.021	.0002	.0000	.0021	.144	0001
P=	.044	1.390	.009	.001	.046	.211	.009	.153	.045	.022	.062	.077	.020	.0002	.0000	.0020	.142	0002
M= WT	95.4	ksi	PT	93.6	ksi	Yield	79.3	ksi	%EL	37.5	RB	98	Hydro:	2940	Psi	Y/T=	.85	RUN: 04-7 0024
NG1979	LINE 3			MFG: Nucor (Decatur)													EDITION REFERENCE 5	
H=	.060	1.390	.011	.002	.044	.232	.007	.130	.040	.020	.050	.076	.023	.0002	.0066	.0012	.156	8/16
P=	.051	1.400	.007	.001	.046	.228	.008	.127	.044	.016	.048	.078	.020	.0001	.0000	.0017	.147	0015
P=	.055	1.370	.007	.001	.046	.231	.008	.126	.044	.014	.048	.078	.021	.0002	.0000	.0021	.150	0015
M= WT	92.1	ksi	PT	93.3	ksi	Yield	78.3	ksi	%EL	38.5	RB	97	Hydro:	2940	Psi	Y/T=	.84	RUN: 04-7 0015

Attachments

PAGE 1  
Continued

Issue No. : 7

Form Date: 6/01/2013

QD-AW3F055



CUSTOMER NAME: PIONEER PIPE

Customer Order Number  
M 20010168

DATE: 5/24/17  
ASP Order Number  
S112231

HEAT	C	MN	P	S	CB	SI	TI	CU	NI	MO	CR	V	AL	B	N	CA	C.E.	Pipe Coil
NG2300	LINE 3		MFG: Nucor (Decatur)													EDITION REFERENCE 5		
H=	.050	1.370	.010	.002	.046	.231	.008	.110	.030	.020	.030	.073	.025	.0001	.0069	.0022	.142	10/16
P=	.048	1.370	.007	.002	.049	.226	.009	.111	.036	.019	.034	.076	.022	.0001	.0000	.0024	.141	0016
P=	.049	1.370	.007	.002	.049	.225	.009	.109	.036	.018	.034	.076	.022	.0001	.0000	.0025	.142	0017
M= WT	90.6	ksi	PT	91.1	ksi	Yield	77.2	ksi	%EL	37.0	RB	98	Hydro:	2940	Psi	Y/T=	.85	RUN: 04-7 0016
SG2502	LINE 3		MFG: Nucor (Decatur)													EDITION REFERENCE 5		
H=	.050	1.390	.011	.002	.047	.223	.007	.130	.040	.020	.040	.075	.024	.0003	.0079	.0015	.146	9/16
P=	.046	1.340	.008	.001	.048	.214	.008	.119	.041	.017	.036	.075	.021	.0002	.0000	.0028	.138	0007
P=	.048	1.350	.009	.004	.047	.246	.009	.112	.040	.017	.052	.075	.021	.0001	.0000	.0031	.142	0008
M= WT	90.7	ksi	PT	91.8	ksi	Yield	77.1	ksi	%EL	39.0	RB	97	Hydro:	2940	Psi	Y/T=	.84	RUN: 04-7 0007
SG2503	LINE 3		MFG: Nucor (Decatur)													EDITION REFERENCE 5		
H=	.050	1.360	.010	.002	.046	.223	.007	.120	.040	.020	.040	.075	.023	.0002	.0075	.0015	.143	8/16
P=	.050	1.320	.008	.001	.048	.214	.007	.112	.041	.016	.041	.075	.018	.0001	.0000	.0029	.141	0019
P=	.053	1.340	.008	.001	.048	.214	.007	.115	.041	.017	.041	.076	.018	.0002	.0000	.0032	.145	0020
M= WT	89.1	ksi	PT	92.6	ksi	Yield	80.5	ksi	%EL	39.5	RB	97	Hydro:	2940	Psi	Y/T=	.87	RUN: 04-7 0019
SG2806	LINE 3		MFG: Nucor (Decatur)													EDITION REFERENCE 5		
H=	.060	1.360	.011	.002	.046	.230	.008	.110	.030	.020	.040	.072	.021	.0001	.0074	.0015	.152	8/16
P=	.051	1.360	.009	.002	.049	.226	.009	.110	.038	.022	.045	.076	.019	.0002	.0000	.0024	.145	0011
P=	.059	1.370	.009	.004	.047	.253	.010	.115	.041	.019	.051	.077	.021	.0001	.0000	.0025	.154	0012
M= WT	89.9	ksi	PT	89.7	ksi	Yield	74.0	ksi	%EL	38.0	RB	99	Hydro:	2940	Psi	Y/T=	.82	RUN: 04-7 0011

Attachments

PAGE 2  
Continued

Issue No.: 7

Form Date: 6/01/2013

QD-AW3F055



CUSTOMER NAME: PIONEER PIPE  
Charpy "V" Notch Tests

Customer Order Number  
M 20010168

DATE: 5/24/17  
ASP Order Number  
S112231

HEAT NO.	SIZE	TEMP	Energy (FT*LBF)			Fracture Appearance					Line #
						AVG	(% Shear Area)				
NG1976 -	.750	32	112	114	110	112	100	78	78	85	3
NG1979 -	.750	32	190	138	132	153	100	78	100	93	3
NG2300 -	.750	32	193	226	206	208	100	100	100	100	3
SG2502 -	.750	32	43	105	232	127	38	87	100	75	3
SG2503 -	.750	32	90	92	130	104	100	90	94	95	3
SG2806 -	.750	32	125	128	106	120	85	73	89	82	3
ALL HEAT AVERAGE =						137	-----				88

STEEL SUPPLIER / MFG  
Nucor (Decatur)

SUPPLIER ADDRESS  
4301 Iverson Blvd. / Trinity, AL 35673

Legend Analyses:

A-Z - Additional Testing R - Retest  
H - Heat Analysis L - Longitudinal  
P - Product Analysis T - Transitional  
M - Mechanical Properties W - Weld Line

Hydrostatic Test: OK  
Flattening Test: OK

EDITION REFERENCE 3: API 5L 43RD EDITION 10/4/2004  
EDITION REFERENCE 4: API 5L 44TH EDITION 10/1/2008  
EDITION REFERENCE 5: API 5L 45TH EDITION 7/1/2013  
EDITION REFERENCE A: ASTM/ASME ANNUAL BOOK OF STANDARDS SECT.1, VOL 01.01

Coils used for this order were melted and manufactured in the USA.

We hereby certify that the above figures are correct as contained in the records of this company, and that the pipe were manufactured, tested, and inspected in compliance with the Latest edition of the applicable specification at American Steel Pipe (ASP) located at 1501 31st Avenue North, Birmingham, AL 35207 (USA).

*James B. Baird*

James B. Baird  
Manager of Quality Assurance - Steel Pipe

PAGE 3  
End of Report  
Form Date: 6/01/2013

Issue No.: 7

QD-AW3F055

Heat Number: 1NX749, Customer PO Number: 20" TEST HEADS, PO Line: Sales Order Number: 9048633, Sales Line: 0001-00000  
 MRC Global Part Number: 16883010, MRC Global Part Description: 20 TECT XH CS WELD CAP MSS SP75 WPH Y65

Head office and plant:  
 Via Roma 160, 29027 Podenzano (Piacenza), Italy  
 Tel. +39 0523 555311 - Fax +39 0523 559821  
 info@tectubraccordi.com - www.tectubraccordi.com



- CERTIFICAT DE RECEPTION - INSPECTION CERTIFICATE - ABNAHMEPRUFZEUGNIS N. 17301413/00  
 (EN 10204 - 3.1)

ACC. TO EU DIRECTIVE 97/23/EC ANNEX I SECT. 4.3 & 7.5

Fig. : dl 2 Date/Datum : 00/11/17

\*\*\*\*\*  
 AVIS/DISPATCH/VERSAND/IOB : V7000242  
 ACHETEUR/PURCHASER/BESTELLER : ALLIED FITTING L.P.  
 COMMANDE N./ORDER N./BESTELLER NR : 51017712  
 SPECIFICATION/SPECIFICATION/LIEFERBEDING : ASTM A860/14 - MSS SP-75/14 - M08037  
 STANDARD DE CONSTRUCTION/CONSTRUCTION STANDARDS/ANFORDERUNGEN : MSS SP-75/14  
 \*\*\*\*\*

ITEM  
 VOTRE NOTRE == QTY == COULEE  
 Y/R O/R == QTY == DESCRIPTIONS HEAT  
 I/REF U/REF SCHMELZE  
 165 054 50 CAPS 20" XS WPHY65 CODE 65PCX20-T12 001NX749

\*\*\*\*\*  
 TYPE DE CONSTRUCTION / TYPE OF CONSTRUCTION / ERZEUGNISFORM : SEAMLESS PRODUCED BY PIPE  
 METHODE DE FABRICATION / METHOD OF MANUFACTURE / HERSTELLVERFAHREN : HOT FORMING BTW 780°C AND 980°C  
 TRAITEMENT THERMIQUE / HEAT TREATMENT / WÄRMEBEHANDLUNG : QUENCHING AT 900°C TEMPERING AT 650°C  
 CERTIFICAT DE FERRERIE N./MILL TEST REPORT N./ABNAHMEPRUFZEUGNIS N. : 413834  
 FOURNISSEUR/SUPPLIER/HERSTELLER : METINVEST  
 \*\*\*\*\*

ANALYSE SUR COULEE / LADCE ANALYSIS / SCHMELZANALYSE (%)  
 \*\*\*\*\*  
 ITEM  
 VOTRE NOTRE COULEE  
 Y/R O/R HEAT  
 I/REF U/REF SCHMELZE = C % = Mn % = Si % = P % = S % = CR % = MO % = Ni % = CU % = AL % = V % = Nb % = Ti % = H % = O %  
 165 054 001NX749 0,150 1,450 0,320 0,012 0,003 0,030 0,005 0,030 0,060 0,030 0,041 0,0200 0,0170 0,0100 0,0005  
 \*\*\*\*\* CHECK \*\*\*\*\* 0,150 1,420 0,310 0,011 0,002 0,032 0,004 0,027 0,057 0,027 0,043 0,0170 0,0160 0,0088 0,0003

MN CR + V + MO CU + NI / MN SI CU NI CR+MO+V+Nb  
 CE3 = C + ----- + ----- = 0,40 CE3=C+ F x | ----- + ----- + ----- + ----- +5b | = 0,391  
 6 5 15 \ 6 24 15 20 5 /  
 CE3 : \*\*\*\*\* CHECK \*\*\*\*\* CE3 : \*\*\*\*\* CHECK \*\*\*\*\*

ESSAI DE TRACTION / TENSILE TEST / ZUGVERSUCH SENS / DIRECTION / LAGE : TRANSV.

ITEM LTH. ELAST. RESISTANCE ALLONGEMENT DURETE  
 VOTRE NOTRE ESSAI COULEE Y.S. T.S. ELONGATION HARDNESS TEST  
 Y/R O/R TEST/LOT NO. HEAT STRECKGRZ ZUGTESTIG DEHNUNG HARTE  
 I/REF U/REF PROBE SCHMELZE MPA MPA (LO=2r) MAX 235 HBW  
 165 054 25932 CO14X749 552,00 661,00 20,20 RES/OBI/ERM. 205 HBW

FITTINGS COMPLY WITH NACE MR 01 75 - 09 : YES [X] NOT HRC 22 Max.  
 MECHANICAL TEST CARRIED OUT ON FINISHED FITTINGS : YES [X] NOT

\* ALL FITTINGS MARKED WITH LOW STRESS DIE STAMPS OR INTERRUPTED DOT STAMPS  
 \* ASPECT ET DIMENSIONS : SATISFAISANT / SURFACE & DIMENSIONS : SATISFACTORY / BESICHTIG - ADMESUNG: DINKE BEAN STANDUNG 100%  
 \* TOUTS LES RACCORDS SONT CONFORMES AUX STIPULATIONS DE LA COMMANDE ET AUX SPECIFICATIONS DESSUS MENTIONNES  
 \* WE CERTIFY THAT THE FITTINGS COMPLY WITH ORDER REQUIREMENTS AND ABOVE MENTIONED SPECIFICATIONS  
 \* DIE GESTELLTEN ANFORDERUNGEN SIND IT ANLAGE ERFULIT

\* MARQUE DE FABRIQUE/TRADE MARK \* CONTROLE DE QUALITE/QUALITY CONTROL \*  
 \* ZEICHEN DES LIEFERWERKES \* DER WERKS - SACHVERSTANDIGE \*  
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Head office and plant:  
 Via Roma 150, 29027 Podenzano (Piacenza), Italy  
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- CERTIFICAT DE RECEPTION - INSPECTION CERTIFICATE - ABNAHMEPRUFZEUGNIS N. 17301413/00  
 (EN 10204 - 3.1)

ACC. TO EU DIRECTIVE 97/23/EC ANNEX I SECT. 4.3 & 7.5

Fg. 2 di 2 Date/Datum : 08/11/17

ESSAI DE RESILIENCE/IMPACT TEST/KERBSCHLAGVERSUCH			DIMENSION		SECTION	SENS/DIRECTION/LAGE : TRANSV.		TEMP. : -46°C	TYPE : KV		
VOTRE N°/RE			SIZE	SECTION	IMPACT VALUE	TRAVAIL DE RUPT.		KERBSCHLAGARBEIT		LAT. EXPANSION (mm)	
Y/R	O/R	TEST/LOT NO.	ABMESSUNGEN	QUERSCH.		1+2+3/3	SHEAR AREA (%)				
1/REF	U/REF	PROBE	MM	CM2							
165	054	259321	10,0 x 10,0	0,80000		1. 206,0	1. 95	1.	2,04		
						2. 202,0	2. 95	2.	2,13		
						3. 194,0	3. 95	3.	2,11		

AUTRES ESSAIS / OTHER TESTS / ANDERE PRUFUNGEN :

Note :

- MAGNETIC PARTICLE EXAMINATION CARRIED OUT ON 100% OF BEVEL ENDS AREA ACCORDING TO ASTM E709 - ASME VIII Div.1 App.6 RESULTS: SATISFACTORY
- ULTRASONIC TEST EXAMINATION CARRIED OUT ON 100% OF BEVEL ENDS AREA ACCORDING TO ASME SA388. RESULTS: SATISFACTORY
- ULTRASONIC TEST EXAMINATION CARRIED OUT ON 100% OF THICKNESSES OF PIECES ACCORDING TO ASTM E797 . RESULTS: SATISFACTORY
- FITTINGS ACCORDING TO NACE MRO175/ISO15156/NACE MRO103
- All material supplied is certified to be free of mercury contamination and no mercury bearing equipment was used during manufacturing
- FITTINGS ACCORDING TO CENTERPOINT ENERGY SPEC.104/109/113 , NI SOURCE TRANSMISSION SPEC. No. FIT-101,ENBRIDGE SPEC. EES-023, ENERGY TRANSFER ETC-HY-Weld-Fit.EQT MISTREAM SPEC.No.2.2.2 MS-FIT-CSW KINDER MORGAN M8120, ONEOK PARTNERS PROCEDURE No.OKSeng3.4900 SEMPRA ENERGY/SOUTHERN CALIFORNIA GAS CO. SPEC.No.52-96, SPECTRA ENERGY SPEC.No.ES-PF1.7/ES-PF1.9, TRANSCANADA SPEC.No.TES-FITG-LD TRANSCANADA SPEC.No.TES-FITG-LD-US,WILLIAMS 50.1207 except par.3.4.4

\* ALL FITTINGS MARKED WITH LOW STRESS DIE STAMPS OR INTERRUPTED DOT STAMPS \*  
 \* ASPECT ET DIMENSIONS : SATISFAISANT / SURFACE & DIMENSIONS : SATISFACTORY / BESICHTIG - ABMESSUNG: OHNE BEANSTANDUNG 100% \*  
 \* TOUS LES RACCORDS SONT CONFORMES AUX STIPULATIONS DE LA COMMANDE ET AUX SPECIFICATIONS DESSUS MENTIONNES \*  
 \* WE CERTIFY THAT THE FITTINGS COMPLY WITH ORDER REQUIREMENTS AND ABOVE MENTIONED SPECIFICATIONS \*  
 \* DIE GESTELLTEN ANFORDERUNGEN SIND IN ANLAGE ERFÜLLT \*  
 \* MARQUE DE FABRIQUE/TRADE MARK \* \* CONTROLE DE QUALITE/QUALITY CONTROL \*  
 \* ZEICHEN DES LIEFERWERKES \* \* DER WERKS - SACHVERSTANDIGE \*

Heat Number: 1NX749, Customer PO Number: 20" TEST HEADS, PO Line: , Sales Order Number: 9048633, Sales Line: 0001-00000  
 MRC Global Part Number: 16883010, MRC Global Part Description: 20 TECTXH CS WELD CAP MSS SP75 WPH Y65



**TECTUBI RACCORDI S.p.A.**

Work and Office: Via Roma, 150 - 29027 Podenzano (PC)

Ph.: +39 0523 555 311/Fax: +39 0523 559 621

E-MAIL: info@tectubi.com

## **MARKING DECLARATION**

DATE: March 21, 2018

PO: S022115491

ALLIED RELEASE: 01-891599-001

With reference to the a/m order we confirm that the following item has been stamped with the following marking:

DESCRIPTION:	20 XH CAP WPHY52
QTY:	7
HEAT:	1NX749
MATERIAL:	WPHY52
STANDARD OF CONSTRUCTION:	MSS SP-75-2014 WPHY52

By this letter we confirm that the a/m fittings are of our production and we give you authorization to re-stamp the below on our fittings:

**20 XH WPHY65/QT 1NX749 ITALY SO 800299**

BEST REGARDS

Troy Gorrell



1341 Hill Rd.  
Houston, Tx 77039  
(281) 590-0190  
Fax: (281) 590-1415  
E-Mail: woi@woihouston.com

ISO 9001:2008  
Certified

SOLD TO: MRC BUCKHANNON-WW  
CUSTOMER'S ORDER NO.: C0188985307B0  
WOI S/O #: C000085493

WE CERTIFY THAT THE MATERIAL FURNISHED ON THIS ORDER COMPLIES IN ALL RESPECTS WITH THE SPECIFICATIONS AS STATED AND THAT THIS CORRECT INFORMATION IS AS CONTAINED IN OUR RECORDS. WOI PRODUCTS ARE MANUFACTURED IN THE UNITED STATES OF AMERICA

MATERIAL TEST REPORT				
LN	ITEM	QUANTITY	DESCRIPTION	HEAT CODE
1	2THB6M1056	4	FLAT X 2 6M THRD BRANCHETTE A105 IAW MSS SP-97	1BUAN

CHEMICAL COMPOSITIONS										
LADLE										
C	Mn	P	S	SI	Ni	Cr	Mo	Cu	V	
.28	.86	.011	.020	.26	.07	.10	.03	.16	.002	
PRODUCT										

MECHANICAL COMPOSITION						
MILL	TENSILE PSI	YIELD PSI	ELONG %	RA %	BHN	BHN
PRODUCT	80200	49400	28.2	61.5	143	143

**COMMENTS**

CE: .465  
EN 40204.3.1  
IAW ASTM A105-15 / ASME SA105-15  
HEAT TREATMENT  
NORMALIZED

BY   
QUALITY ASSURANCE CONTROL  
DEPARTMENT

DATE: 06/18/2018



THIS PRODUCT HAS NOT COME IN DIRECT CONTACT WITH MERCURY OR ANY OF ITS COMPOUNDS, NOR WITH ANY MERCURY CONTAINING DEVICE EMPLOYING A SINGLE BOUNDARY OF CONTAINMENT. THERE HAS BEEN NO REPAIR BY WELDING ON THIS MATERIAL.



**CERTIFIED MILL TEST REPORT**



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

LOG NO. M00000000001495 Page 1 of 22

**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 GLOBAL (US) INC.

**DATE** 05/03/2018

**CUSTOMER  
ORDER NO.:**

**BONNEY ORDER NO.**

**SHIP TO:** MRC GLOBAL (US) INC.  
P. O. BOX 513  
CHARLESTON WV 25322  
United States

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

1		50393	36-8X2 6M A105 FLEX T SA/A105
18464306			Al 0.024 C 0.200 Co 0.004 Cr 0.080 Cu 0.110 Mn 1.000 Mo 0.014 Nb 0.015 Ni 0.060 P 0.009 S 0.019 Si 0.220 V 0.003 CE(Long Formula) = 0.40 T/S(Psi) 76,263 Y/S(Psi) 49,334 EL(%) 35.30 RA(%) 55.91 Brinell 147 BHN 150 BHN

1. THE FITTINGS SUPPLIED ARE IN ACCORDANCE WITH PURCHASE ORDER SPECIFICATIONS.
2. THE MATERIAL SUPPLIED MEETS THE REQUIREMENTS OF NACE MR0175/ISO 15156-2 - 2015 EDITION.
3. CERTIFYING ASTM A105-14 / ASME SA105-15 EDITION.
4. THE PRODUCT SUPPLIED WAS INSPECTED IN ACCORDANCE WITH EN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT. (EUROPEAN STANDARD)
5. 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.

by Kylee Ruiz  
Kylee Ruiz  
QUALITY PROCESS MANAGER

CMTR: REV2

# CERTIFIED MILL TEST REPORT



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

LOG NO. M00000000001159

Page 1 of 1

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 GLOBAL (US) INC.

DATE 11/15/2017

CUSTOMER  
ORDER NO.:

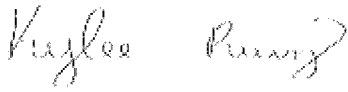
BONNEY ORDER NO.

SHIP TO: MRC GLOBAL (US) INC.  
P. O. BOX 513  
CHARLESTON WV 25322  
United States

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO.	CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
1		59977	36 -12 X 1 6000 A105 SOCK S	SA/A105
18438364			Al 0.024 C 0.200 Co 0.002 Cr 0.040 Cu 0.050 Mn 1.030 Mo 0.005 Nb 0.011 Ni 0.020 P 0.005 S 0.019 Si 0.240 V 0.003 CE(Long Formula) = 0.39 T/S(PSI) 77,935 Y/S(PSI) 51,731 EL(%) 33.25 RA(%) 58.07 Brinell 141 BHN 141 BHN	

1. THE FITTINGS SUPPLIED ARE IN ACCORDANCE WITH PURCHASE ORDER SPECIFICATIONS.
2. THE MATERIAL SUPPLIED MEETS THE REQUIREMENTS OF NACE MR0175/ISO 15156-2.
3. CERTIFYING ASTM A105-14 / ASME SA105-15 EDITION.
4. THE PRODUCT SUPPLIED WAS INSPECTED IN ACCORDANCE WITH EN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT. (EUROPEAN STANDARD)
5. 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.

by 

Kylee Ruiz

QUALITY PROCESS MANAGER

CMTR: REV2