

4407 Haygood St - Houston, TX 77022 Phone: 713-695-3633 Fax: 713-695-3528 A Bonney Forge Company

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. No welding performed.

We certify that the contents of this report are correct and accurate, and that all test results and operations performed by WFI or its subcontractors are in compliance with the material specification and requirements of the referenced code or standard, and that the material conforms to the dimensional requirements of the order. This document is in accordance with EN10204 3.1.

Material:

A/SA105 09

ltem 3

Quantity

Description

15

3/4 3M 90EL S

A/SA105

0.004

Chemical Composition

¢

Ladle

CR CU 0,200 0.09 0.170

v s SI

Tensile PSI

78,125

0.017 Carbon Equivalency:

0.20 Ladle

Yield PSI

47,500

0.40

Elong % 31.20

0.010

NB

0.013

RA % 62.50

NI

0.04

Hardness

0.014

150 BHN

150 BHN

AS FORGED

Product

Page 1 of 15

Sold To: PLESA ANAHUAC Y CIAS., S.A.

DE C.V.

AV. VALLE DE LAS ALAMEDAS NO. 66

MTR#: 231,736

PO#: 13015

Sales Order #: C001207595

Date: 06/05/2012

Certified Material Test Report



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Material: A/SA105 09

Item

12

Quantity 100

Description

3/4 3M HOT-DIP 90EL T

A/SA105

Sold To: PLESA ANAHUAC Y CIAS., S.A.

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AV. VALLE DE LAS ALAMEDAS NO. 66

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Sales Order #: C001207595

Date: 06/05/2012

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Certified Material Test Report

Heat Code: 58375

Chemical Composition

Ladle NT CR CU NB 0.007 0.04 0.270 0.99 0.010 0,000 0.210 0.03

> ٧ \$ SI 0.003 0.020 0.18

0.40 Carbon Equivalency: Ladle

Yield PSI Elong % RA% Hardness Tensile PSI 144 BHN 147 BHN 30.90 62.30 Product 78,750 50,625

AS FORGED



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Material: A/SA105 09

Item

Quantity Description

14 5

3/4X 3/4X 1/2 6M TEE S A/SA105

Chemical Composition

Ladle С 0.200

CR CU MN 1.01 0.04 0,130 SI v

s 0.020 0.20 0.003

Carbon Equivalency:

Ladle

0.39

Yield PSI Tensile PSI 76,250 51,250 Elong % 29.00

MO

0.010

NB

0.012

RA% 61.55

NI

0.04

Hardness 141 BHN

141 BHN

AS FORGED

Product

Page 3 of 15

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AV. VALLE DE LAS ALAMEDAS NO. 66

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Certified Material Test Report

Heat Code: 58376

0.008



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Material: A/SA105 09

Item

9

Quantity

50

Description

11/2 3000 HOT-DIP 90EL T

A/SA105

Chemical Composition

Ladle

С	CR	cu	MN	мо	NB	NI	P
0.210	0.03	0.080	1.06	0.010	0.014	0.02	0.007

SI 0.021

Carbon Equivalency:

0.22 0.004

0.40 Ladle

76,250

Tensile PSI

Yield PSI 52,500 Elong % 31,20 RA% 63.75

Hardness 137 BHN

AS FORGED

Product

Page 4 of 15

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MTR#: 231,736

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Material:

welding performed.

A/SA105 09

accordance with EN10204 3.1.

Item

3

Ladle

Quantity Description

> 3/4 3M 90EL S 185

> > A/\$A105

Chemical Composition

	C	OIL		P.744		212		-	
	0.210	0.03	0.090	1.03	0.010	0.014	0.04	0.008	
	s	sī	v						
	0.024	0.22	0.003						
Carbon Equivalency:		Ladle		0.40					
Product		GD.	CU	MN	мо	NI	p	s	
i ioduct	C	ÇR	CO	TAWA.	MO	TAT	E	ø	

0.000 0.00 0.000 0.00 0.000 SI 0.00 0.000

Tensile PSI Yield PSI Elong % RA% Hardness 28.85 62.55 147 BHN Product 78,750 51,250

MELTING MILL: ARCELORMITTAL/LONGUEUIL WORKS - CANADA: HEAT#C85592\_01

AS FORGED

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AV. VALLE DE LAS ALAMEDAS NO. 66

MTR#: 231,736

PO#: 13015

Sales Order #: C001207595

Date: 06/05/2012

150 BHN

Certified Material Test Report

Heat Code: 58435

0.000

0.000



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Material: A/SA105 09

Item

2

**Ouantity** 

Description

100

11/2 3M 90EL S

A/SA105

CII

v

0.120

0.004

Chemical Composition

Ladle

Product

C CR 0.210 0.04

SI

0.023 Carbon Equivalency:

s

0.21 Ladle

Tensile PSI 76,250

Yield PSI 50,625

MN

1.00

0.40

Elong % 32.70

MO

0.000

NR

0.014

RA% 63.50

NT

0.02

Hardness

0.009

132 BHN

132 BHN

AS FORGED

Sold To: PLESA ANAHUAC Y CIAS., S.A.

DE C.V.

AV. VALLE DE LAS ALAMEDAS NO. 66

MTR#: 231,736

PO#: 13015

Sales Order #: C001207595

Date: 06/05/2012

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Certified Material Test Report

Heat Code: 58449

Marie Dehmer

Quality Assurance Representative



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Material: A/SA105 09

Item

Quantity

Description

11/2 3M 45EL S

A/SA105

Chemical Composition

Ladle	В	C	CR	CU	MN	мо 0.000	NB 0.014	NI 0.02		
	0.0003	0.210	0.04	0.120	1.00 V	0.000	0.014	0.02		
	Þ	s	SI	Ti						
	0.009	0.023	0.21	0.0010	0.004					
Carbon Equiv	alency:	Ladle		0.40						
Product	С	CR	CU	MIN	мо	NI	P	s		
	0.000	0.00	0.000	0.00	0.000	0.00	0.000	0.000		
	SI	v								
	0.00	0.000								
	Tensile PSI		Yield	PSI	Elong %		RA %	Hardness		
Product		76,250	50	,625	32.70		63.50	132 BHN	132	BHN

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Date: 06/05/2012

Sold To: PLESA ANAHUAC Y CIAS., S.A.

AV. VALLE DE LAS ALAMEDAS NO. 66

Certified Material Test Report

DE C.V.

MTR#: 231,736

PO#: 13015

Sales Order #: C001207595

Heat Code: 58452

AS FORGED



4407 Haygood St - Houston, TX 77022 Phone: 713-695-3633 Fax: 713-695-3528 A Bonney Forge Company

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Material: A/SA105 09

ltem Quantity Description
5 60 2 3M 45EL S
A/SA105

Chemical Composition

Ladle C CR CU MN MO NB NI P
0.200 0.06 0.120 1.02 0.010 0.014 0.03 0.010

s sI V 0.019 0.19 0.004

Carbon Equivalency: Ladle 0.40

 Tensile PSI
 Yield PSI
 Elong %
 RA %
 Hardness

 Product
 81,598
 51,574
 33.25
 62.56
 150 BHN
 150 BHN

AS FORGED

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DE C.V.

AV. VALLE DE LAS ALAMEDAS NO. 66

MTR #: 231,736

PO#: 13015

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Date: 06/05/2012

Certified Material Test Report



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Material:

A/SA105 09

Item 13 Quantity Description

5 1 X1 X 1/2 6M TEE S

A/SA105

Chemical Composition

Ladle c

C CR CU MN MO NB 0.200 0.03 0.050 1.05 0.000 0.014

s sr v

0.020 0.22 0.003

Carbon Equivalency: Ladle 0.39

 Tensile PSI
 Yield PSI
 Elong %
 RA %
 Hardness

 80,286
 50,211
 33.25
 62.56
 144 BHN

AS FORGED

Product

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MTR#: 231,736

PO#: 13015

Sales Order #: C001207595

Date: 06/05/2012

150 BHN

Certified Material Test Report

Heat Code: 58570

NI

0.01

0.006



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Material:

A/SA105 09

Item

1

Quantity Description

400

1 3M 90EL S

A/SA105

Chemical Composition

Ladle

Product

¢ CU CR 0.200 0.04 0.040

SI 0.020 0.21

81,064

Carbon Equivalency:

0.003 Ladie

Tensile PSI Yield PSI

0.39

1.04

50,484

Elong % 32.25

0.010

NB

0.014

RA% 59.85

NI

0.02

Hardness 156 BHN

0.007

156 BHN

AS FORGED

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DE C.V.

AV. VALLE DE LAS ALAMEDAS NO. 66

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MTR#: 231,736

PO #: 13015

Sales Order #: C001207595

Date: 06/05/2012

Certified Material Test Report



Date: 06/05/2012

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AV. VALLE DE LAS ALAMEDAS NO. 66

Certified Material Test Report

DE C.V.

231,736

MTR #:

PO#: 13015

Sales Order #: C001207595

Heat Code: 58610



Manufacturer of Piping and Pressure Vessel Components

4404 Haygood St - Houston, TX 77022 Phone: 713-695-3633 Fax: 713-695-3528 A Bonney Forge Company

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Material: A/SA105 09

Item

Quantity

50

Description

1 3M HOT-DIP 90EL T

A/SA105

Chemical Composition

Ladle

11

C	CR	CÜ	MN	MO	NB	NI	P
0.200	0.03	0.040	1.04	0.000	0.015	0.02	0.007
S	SI	v				•	

0.018 0.23 0.003

Product

Tensile PSI Yield PSI 77,995 50,412 Elong % 32.30 RA % 61.83

Hardness 144 BHN

150 BHN

AS FORGED

MUST SHIP 5/30/12



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Material: A/SA105 09

Item

Quantity

Description

2 3M 90EL T 30

A/SA105

CU

0.040

Chemical Composition

Ladle

C CR 0.04 0.200

s 0.019

SI 0.20 Ladle

v 0.004

1.04

0.39

0.000

0.016

0.02

NI

0.006

Product

Tensile PSI 75,048

Yield PSI 47,688 Elong % 31.95 RA% 62.07

Hardness

139 BHN

141 BHN

Page 12 of 15

Date: 06/05/2012

Sold To: PLESA ANAHUAC Y CIAS., S.A.

AV. VALLE DE LAS ALAMEDAS NO. 66

Certified Material Test Report

DE C.V.

MTR#: 231,736

PO#: 13015

Sales Order #: C001207595

Heat Code: 58631

AS FORGED

Carbon Equivalency:

Marie Dehmer

Quality Assurance Representative



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Material:

A/SA105 09

Item 10

Quantity

50

Description

1/2 3000 HOT-DIP 90EL T

A/SA105

Chemical Composition

s

0.018

Ladle С

CU CR 0.220 0.03

0.040 1.05 SI v 0.003

0.000 0.000

NI 0.02

0.006

0.41

MN

Carbon Equivalency:

Ladle Tensile PSI

77,490

0.24

Yield PSI 50,318 Elong % 31.30 RA% 62.32

Hardness 141 BHN

141 BHN

Page 13 of 15

Date: 06/05/2012

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AV. VALLE DE LAS ALAMEDAS NO. 66

Certified Material Test Report

DE C.V.

MTR#: 231,736

PO#: 13015

Sales Order #: C001207595

Heat Code: 58637

AS FORGED

Product

Marie Dehmer Quality Assurance Representative



4407 Haygood St - Houston, TX 77022 Phone: 713-695-3633 Fax: 713-695-3528

A Bonney Forge Company

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Material: A/SA105 09

Item 6

Quantity Description

100 2 3M TEE T

A/\$A105

Chemical Composition

Ladle

C CR CU NI MN MO NB 0.007 0.200 0.03 0.070 1.02 0.000 0.014 0.02 SI v

0.38

75,067

0.018

0.21 0.003

Carbon Equivalency: Ladle

Tensile PSI

Yield PSI 58,736 Elong % 34.45

RA% 66.80 Hardness 137 BHN

141 BHN

AS FORGED

Product

Page 14 of 15

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MTR#: 231,736

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Material:

A/SA105 09

Item

8

Quantity

Description

20

13M UNAR T

A/\$A105

Chemical Composition

Ladle

C 0.210

0.020

CR 0.04 sī

0.22

Ladle

CU 0.040

48,300

0.39

0.000

NT NB 0.012

0.02

0.006

Product

Tensile PSI 80,000

Yield PSI

0.003

Elong % 29.50 RA% 54.00 Hardness 159 BHN

160 BHN

HOT ROLLED

Carbon Equivalency:

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Certified Material Test Report