



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

Sold To: PLESA STEEL INC
5100 WESTHEIMER ROAD
SUITE 200
HOUSTON TX 77056

MTR #: 242,859

PO #: 59

Sales Order #: c001216749

Date: 11/27/2012

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.

Certified Material Test Report

Heat Code: 58589

Material: A/SA105 09

Table with 3 columns: Item, Quantity, Description. Row 1: 2, 100, 1 1/2 3M 90EL S A/SA105

Chemical Composition

Table with 9 columns: Ladle, C, CR, CU, MN, MO, NB, NI, P. Row 1: 0.210, 0.03, 0.080, 1.03, 0.000, 0.013, 0.02, 0.006. Row 2: S, SI, V. Row 3: 0.018, 0.21, 0.004

Carbon Equivalency: Ladle 0.40

Table with 7 columns: Product, Tensile PSI, Yield PSI, Elong %, RA %, Hardness. Row 1: Product, 80,188, 49,293, 32.55, 61.09, 156 BHN, 156 BHN

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Certified Material Test Report

Heat Code: 58631

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Material: A/SA105 09

Item	Quantity	Description
1	40	2 3M 90EL T A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.200	0.04	0.040	1.04	0.000	0.016	0.02	0.006
	S	SI	V					
	0.019	0.20	0.004					
Carbon Equivalency:		Ladle		0.39				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	75,048	47,688	31.95	62.07	139 BHN
					141 BHN

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Certified Material Test Report

Heat Code: 58635

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.

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Material: A/SA105 09

Item	Quantity	Description
4	100	1 3M 45EL S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.210	0.04	0.040	1.02	0.000	0.012	0.02	0.006
	S	SI	V					
	0.020	0.22	0.003					
Carbon Equivalency:		Ladle		0.39				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	77,567	50,469	31.50	60.10	144 BHN
					147 BHN

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Marie Dehmer
 Quality Assurance Representative



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Certified Material Test Report

Heat Code: 58650

Material: A/SA105 09

Table with 3 columns: Item, Quantity, Description. Row 1: 1, 60, 2 3M 90EL T A/SA105

Chemical Composition

Table with 9 columns: Ladle, C, CR, CU, MN, MO, NB, NI, P. Values: 0.200, 0.03, 0.080, 1.06, 0.010, 0.014, 0.03, 0.006. Row 2: S, SI, V. Values: 0.020, 0.20, 0.004. Carbon Equivalency: Ladle 0.39

Table with 7 columns: Product, Tensile PSI, Yield PSI, Elong %, RA %, Hardness. Values: 80,323, 49,420, 29.45, 57.56, 144 BHN, 150 BHN

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Marie Dehmer
Quality Assurance Representative



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Date: 11/27/2012

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Certified Material Test Report

Heat Code: 58695

Material: A/SA105 09

Item	Quantity	Description
3	143	2 3M 90EL S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.198	0.04	0.080	1.02	0.006	0.015	0.03	0.006
	S	SI	V					
	0.018	0.21	0.004					
Carbon Equivalency:		Ladle		0.39				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	73,963	49,035	27.90	63.95	139 BHN
					141 BHN

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Certified Material Test Report

Heat Code: 58726

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Material: A/SA105 09

Table with 3 columns: Item, Quantity, Description. Row 1: 3, 57, 2 3M 90EL S A/SA105. Row 2: 5, 20, 1 1/2 6M 90EL S A/SA105.

Chemical Composition

Table with 9 columns: Ladle, C, CR, CU, MN, MO, NB, NI, P. Row 1: 0.202, 0.06, 0.160, 1.00, 0.009, 0.011, 0.04, 0.006. Row 2: S, SI, V. Row 3: 0.021, 0.19, 0.003. Carbon Equivalency: Ladle 0.40

Table with 6 columns: Product, Tensile PSI, Yield PSI, Elong %, RA %, Hardness. Row 1: Product, 78,658, 48,264, 32.30, 62.56, 153 BHN. Row 2: 153 BHN

AS FORGED