



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

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

MTR #: 262,632

PO #: 119

Sales Order #: C001313964

Date: 10/07/2013

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.

Certified Material Test Report

Heat Code: 58469

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

Item	Quantity	Description
1	100	1 3M 90EL T A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.190	0.05	0.130	1.00	0.010	0.015	0.04	0.009
	S	SI	V					
	0.019	0.20	0.004					

Carbon Equivalency: Ladle 0.38

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	80,000	48,750	28.20	62.30	153 BHN	156 BHN

AS FORGED

Marie Dehmer  
Quality Assurance Representative



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Certified Material Test Report

Heat Code: 58620

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Material: A/SA105 09

Item	Quantity	Description
6	50	3/4 6M 90EL S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.200	0.06	0.050	1.03	0.000	0.000	0.02	0.008
	S	SI	V					
	0.020	0.21	0.003					

Carbon Equivalency: Ladle 0.39

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	77,649	50,234	30.15	61.09	144 BHN
					144 BHN

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Certified Material Test Report

Heat Code: 58732

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Material: A/SA105 09

Item	Quantity	Description
4	100	1 1/2 3M 90EL S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NE	NI	P
	0.193	0.06	0.160	1.04	0.009	0.015	0.05	0.007
	S	SI	V					
	0.020	0.19	0.003					

Carbon Equivalency: Ladle 0.40

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	79,664	50,474	32.40	61.12	141 BHN	147 BHN

AS FORGED

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Certified Material Test Report

Heat Code: 58801

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Material: A/SA105 09

Item	Quantity	Description
5	100	3/4 3M 90EL S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.213	0.04	0.070	1.06	0.005	0.014	0.02	0.012
	S	SI	V					
	0.018	0.21	0.004					

Carbon Equivalency: Ladle 0.41

Product	C	CR	CU	MN	MO	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						

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	77,997	51,245	29.85	63.76	141 BHN
					147 BHN

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Certified Material Test Report

Heat Code: 58961

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Material: A/SA105 09

Item	Quantity	Description
2	100	1/2 3M 90EL T A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.200	0.05	0.040	1.02	0.004	0.013	0.02	0.009
	S	SI	V					
	0.019	0.23	0.003					

Carbon Equivalency: Ladle 0.39

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	77,647	50,325	32.60	62.36	141 BHN
					144 BHN

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Certified Material Test Report

Heat Code: 59021

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Material: A/SA105 09

Item	Quantity	Description
7	50	1 1/2 3M TEE T A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NI	NI	P
	0.200	0.03	0.090	1.02	0.007	0.015	0.04	0.007
	S	SI	V					
	0.019	0.21	0.003					

Carbon Equivalency: Ladle 0.39

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	78,424	50,320	30.75	62.56	144 BHN	147 BHN

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**Certified Material Test Report**

Heat Code: 59087

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Material: A/SA105 11

Item	Quantity	Description
8	30	1/2 6M TEE T A/SA105

**Chemical Composition**

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.200	0.04	0.080	1.01	0.006	0.012	0.04	0.010
	S	SI	V					
	0.019	0.22	0.003					

Carbon Equivalency: Ladle 0.39

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	77,083	48,368	31.45	62.80	141 BHN	147 BHN

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Certified Material Test Report

Heat Code: 59108

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Material: A/SA105 11

Item	Quantity	Description
9	20	2 X2 X 11/2 3M TEE T A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.210	0.02	0.040	1.06	0.003	0.014	0.02	0.006
	S	SI	V					
	0.022	0.21	0.003					

Carbon Equivalency: Ladle 0.40

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	74,465	49,433	33.70	63.04	139 BHN	139 BHN

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### Certified Material Test Report

Heat Code: 59163

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Material: A/SA105 11

Item	Quantity	Description
3	50	2 3000 HOT-DIP 90EL T A/SA105

#### Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.200	0.06	0.060	1.03	0.007	0.015	0.03	0.006
	S	SI	V					
	0.020	0.19	0.004					

Carbon Equivalency: Ladle 0.39

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	77,265	48,769	31.30	63.04	147 BHN	150 BHN

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Certified Material Test Report

Heat Code: M1AR

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Material: A/SA105 11

Item	Quantity	Description
10	50	1 3M UNAR T A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.190	0.10	0.190	1.02	0.030	0.002	0.09	0.012
	S	SI	V					
	0.019	0.22	0.003					
Carbon Equivalency:	Ladle		0.41					

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	81,000	46,900	29.00	56.70	167 BHN	170 BHN

HOT ROLLED

Marie Dehmer  
 Quality Assurance Representative