



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 #: 307,127

PO #: 413

Sales Order #: C001523986

Date: 12/28/2015

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: 59675

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 13

Item	Quantity	Description
7	10	2 X2 X 3/4 6M TEE S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.2100	0.06	0.12	1.010	0.010	0.013	0.050	0.008
	S	SI	V					
	0.022	0.210	0.00					

Carbon Equivalency: Ladle 0.40

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	79,557	51,244	33.85	55.73	141 BHN
					147 BHN

MILL/COUNTRY OF ORIGIN: ARCELORMITTAL (CANADA) - HEAT #C111757/BONNEY FORGE (USA) - LOT#59675

AS FORGED



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Certified Material Test Report

Heat Code: 59683

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Material: A/SA105 13

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

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.2000	0.06	0.10	1.010	0.010	0.011	0.050	0.006
	S	SI	V					
	0.018	0.230	0.00					

Carbon Equivalency: Ladle 0.39

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	78,010	51,060	32.20	56.09	139 BHN
					141 BHN

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Certified Material Test Report

Heat Code: 59730

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Material: A/SA105 13

Item	Quantity	Description
5	20	2 3000 HOT-DIP TEE T A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.2100	0.05	0.11	0.990	0.007	0.014	0.030	0.007
	S	SI	V					
	0.021	0.220	0.00					

Carbon Equivalency: Ladle 0.40

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	74,974	48,643	31.80	62.51	135 BHN
					135 BHN

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Date: 12/28/2015

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Certified Material Test Report

Heat Code: 59757

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Material: A/SA105 13

Item	Quantity	Description
3	50	2 3M 45EL S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.2000	0.03	0.07	1.040	0.006	0.014	0.020	0.005
	S	SI	V					
	0.019	0.200	0.00					

Carbon Equivalency: Ladle 0.39

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	77,405	48,934	34.20	62.43	144 BHN
					144 BHN

MILL/COUNTRY OF ORIGIN: ARCELORMITTAL (CANADA) - HEAT #C112707 / BONNEY FORGE (USA) - LOT #59757

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MTR #: 307,127

PO #: 413

Sales Order #: C001523986

Date: 12/28/2015

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Certified Material Test Report

Heat Code: 59779

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Material: A/SA105 13

Item	Quantity	Description
6	10	2 X2 X 1 6M TEE S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.1900	0.04	0.04	1.050	0.004	0.014	0.020	0.006
	S	SI	V					
	0.020	0.210	0.00					

Carbon Equivalency: Ladle 0.38

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	77,509	48,598	34.45	62.41	137 BHN	141 BHN

MILL/COUNTRY OF ORIGIN: ARCELORMITTAL, CANADA-HEAT C112713/BONNEY FORGE (USA) - LOT #59779

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PO #: 413

Sales Order #: C001523986

Date: 12/28/2015

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Certified Material Test Report

Heat Code: 59789

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Material: A/SA105 13

Item	Quantity	Description
4	50	1 6M 90EL S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.2100	0.03	0.04	1.030	0.004	0.013	0.200	0.006
	S	SI	V					
	0.018	0.170	0.00					

Carbon Equivalency: Ladle 0.41

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	74,773	48,076	35.45	59.94	135 BHN
					137 BHN

MILL COUNTRY OF ORIGIN: CANADA; MANUFACTURED IN USA

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Certified Material Test Report

Heat Code: 59893

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Material: A/SA105 13

Item	Quantity	Description
1	50	3/4 3M 90EL S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.2100	0.07	0.12	1.040	0.008	0.011	0.040	0.009
	S	SI	V					
	0.020	0.190	0.00					

Carbon Equivalency: Ladle 0.41

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	80,546	52,688	32.60	62.56	147 BHN	147 BHN

COUNTRY OF ORIGIN: CANADA

AS FORGED