



Sold To: PLESA STEEL INC  
12700 NORTHBOROUGH  
DRIVE  
SUITE 646

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 #: 278,249

PO #: 231

Sales Order #: C001408335

Date: 06/26/2014

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: 58751

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
6	50	2 3M TEE S A/SA105

#### Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.150	0.11	0.20	1.03	0.040	0.002	0.08	0.009
	S	SI	V					
	0.018	0.26	0.022					

Carbon Equivalency: Ladle 0.38

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	79,484	53,640	30.35	62.75	156 BHN
					162 BHN

AS FORGED

1.  
IN ACCORDANCE WITH NACE SPEC MR0175-2009



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Certified Material Test Report

Heat Code: 58852

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Material: A/SA105 09

Item	Quantity	Description
5	50	1 3M TEE S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.207	0.05	0.09	1.02	0.006	0.015	0.03	0.008
	S	SI	V					
	0.022	0.21	0.004					

Carbon Equivalency: Ladle 0.40

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	83,014	52,417	29.80	60.19	156 BHN
					159 BHN

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Certified Material Test Report

Heat Code: 59132

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Material: A/SA105 11

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

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.190	0.04	0.06	1.03	0.008	0.016	0.03	0.007
	S	SI	V					
	0.021	0.21	0.004					
Carbon Equivalency:	Ladle			0.38				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	79,922	50,679	31.60	61.58	147 BHN	147 BHN

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### Certified Material Test Report

Heat Code: 59192

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Material: A/SA105 13

Item	Quantity	Description
2	50	11/2 3000 HOT-DIP 90EL T A/SA105

#### Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.200	0.03	0.06	1.15	0.006	0.014	0.03	0.005
	S	SI	V					
	0.018	0.17	0.005					
Carbon Equivalency:	Ladle		0.41					

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	78,580	49,424	29.05	59.85	141 BHN	144 BHN

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Certified Material Test Report

Heat Code: 59195

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Material: A/SA105 11

Item	Quantity	Description
1	50	2 3000 HOT-DIP 90EL T A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NI	P	S
	0.190	0.03	0.05	1.03	0.005	0.01	0.004	0.020
	SI	V						
	0.21	0.004						
Carbon Equivalency:		Ladle		0.37				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	76,342	48,811	33.20	61.83	139 BHN	141 BHN

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**Certified Material Test Report**

Heat Code: 59341

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Material: A/SA105 11

Item	Quantity	Description
7	30	2 3M TEE T A/SA105

**Chemical Composition**

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.200	0.04	0.05	1.04	0.005	0.012	0.04	0.004
	S	SI	V					
	0.019	0.21	0.004					
Carbon Equivalency:	Ladle		0.39					

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	77,987	49,126	32.90	59.46	139 BHN
					139 BHN

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Certified Material Test Report

Heat Code: 59396

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Material: A/SA105 13

Item	Quantity	Description
4	50	1 1/2X1 1/2X 1/2 3M TEE T A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.210	0.03	0.07	1.03	0.015	0.014	0.02	0.005
	S	SI	V					
	0.022	0.21	0.001					
Carbon Equivalency:	Ladle			0.40				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	80,652	50,669	31.70	60.44	141 BHN
					141 BHN

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