



Manufacturer of Piping and Pressure Vessel Components

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

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

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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Certified Material Test Report

Heat Code: 58210

Material: A/SA105 09

Item	Quantity	Description
3	15	3/4 3M 90EL S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.200	0.09	0.170	0.99	0.010	0.013	0.04	0.014
	S	SI	V					
	0.017	0.20	0.004					
Carbon Equivalency:		Ladle		0.40				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	78,125	47,500	31.20	62.50	150 BHN	150 BHN

AS FORGED

Marie Dehmer
 Quality Assurance Representative



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Certified Material Test Report

Heat Code: 58375

Material: A/SA105 09

Item	Quantity	Description
12	100	3/4 3M HOT-DIP 90EL T A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NI	NI	P
	0.210	0.03	0.270	0.99	0.010	0.000	0.04	0.007
	S	SI	V					
	0.020	0.18	0.003					
Carbon Equivalency:		Ladle		0.40				

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

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Certified Material Test Report

Heat Code: 58376

Material: A/SA105 09

Item	Quantity	Description
14	5	3/4X 3/4X 1/2 6M TEE S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.200	0.04	0.130	1.01	0.010	0.012	0.04	0.008
	S	SI	V					
	0.020	0.20	0.003					
Carbon Equivalency:		Ladle		0.39				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	76,250	51,250	29.00	61.55	141 BHN	141 BHN

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Certified Material Test Report

Heat Code: 58397

Material: A/SA105 09

Item	Quantity	Description
9	50	1 1/2 3000 HOT-DIP 90EL T A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.210	0.03	0.080	1.06	0.010	0.014	0.02	0.007
	S	SI	V					
	0.021	0.22	0.004					
Carbon Equivalency:		Ladle		0.40				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	76,250	52,500	31.20	63.75	137 BHN

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Certified Material Test Report

Heat Code: 58435

Material: A/SA105 09

Item	Quantity	Description
3	185	3/4 3M 90EL S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.210	0.03	0.090	1.03	0.010	0.014	0.04	0.008
	S	SI	V					
	0.024	0.22	0.003					
Carbon Equivalency:		Ladle		0.40				
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
	78,750	51,250	28.85	62.55	147 BHN
					150 BHN

MELTING MILL: ARCELORMITTAL/LONGUEUIL WORKS - CANADA: HEAT#C85592_01

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Certified Material Test Report

Heat Code: 58449

Material: A/SA105 09

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

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.210	0.04	0.120	1.00	0.000	0.014	0.02	0.009
	S	SI	V					
	0.023	0.21	0.004					
Carbon Equivalency:		Ladle		0.40				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	76,250	50,625	32.70	63.50	132 BHN	132 BHN

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Certified Material Test Report

Heat Code: 58452

Material: A/SA105 09

Item	Quantity	Description
4	60	1 1/2 3M 45EL S A/SA105

Chemical Composition

Ladle	B	C	CR	CU	MN	MO	NB	NI
	0.0003	0.210	0.04	0.120	1.00	0.000	0.014	0.02
	P	S	SI	Ti	V			
	0.009	0.023	0.21	0.0010	0.004			
Carbon Equivalency:		Ladle		0.40				

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
	76,250	50,625	32.70	63.50	132 BHN
					132 BHN

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Certified Material Test Report

Heat Code: 58537

Material: A/SA105 09

Item	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				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	81,598	51,574	33.25	62.56	150 BHN
					150 BHN

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Certified Material Test Report

Heat Code: 58570

Material: A/SA105 09

Item	Quantity	Description
13	5	1 X1 X 1/2 6M TEE S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NE	NI	P
	0.200	0.03	0.050	1.05	0.000	0.014	0.01	0.006
	S	SI	V					
	0.020	0.22	0.003					
Carbon Equivalency:		Ladle		0.39				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	80,286	50,211	33.25	62.56	144 BHN	150 BHN

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Certified Material Test Report

Heat Code: 58576

Material: A/SA105 09

Item	Quantity	Description
1	400	1 3M 90EL S A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.200	0.04	0.040	1.04	0.010	0.014	0.02	0.007
	S	SI	V					
	0.020	0.21	0.003					
Carbon Equivalency:		Ladle		0.39				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	81,064	50,484	32.25	59.85	156 BHN	156 BHN

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Certified Material Test Report

Heat Code: 58610

Material: A/SA105 09

Item	Quantity	Description
11	50	1 3M HOT-DIP 90EL T A/SA105

Chemical Composition

Ladle	C	CR	CU	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	Elong %	RA %	Hardness	
	77,995	50,412	32.30	61.83	144 BHN	150 BHN

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MUST SHIP 5/30/12



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Certified Material Test Report

Heat Code: 58631

Material: A/SA105 09

Item	Quantity	Description
7	30	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: 58637

Material: A/SA105 09

Item	Quantity	Description
10	50	1/2 3000 HOT-DIP 90EL T A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.220	0.03	0.040	1.05	0.000	0.000	0.02	0.006
	S	SI	V					
	0.018	0.24	0.003					
Carbon Equivalency:		Ladle		0.41				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	77,490	50,318	31.30	62.32	141 BHN	141 BHN

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Certified Material Test Report

Heat Code: 58661

Material: A/SA105 09

Item	Quantity	Description
6	100	2.3M TEE T A/SA105

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.200	0.03	0.070	1.02	0.000	0.014	0.02	0.007
	S	SI	V					
	0.018	0.21	0.003					
Carbon Equivalency:		Ladle		0.38				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness	
	75,067	58,736	34.45	66.80	137 BHN	141 BHN

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Certified Material Test Report

Heat Code: 6084

Material: A/SA105 09

Item	Quantity	Description
8	20	1 3M UNAR T 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	
	80,000	48,300	29.50	54.00	159 BHN	160 BHN

HOT ROLLED

Marie Dehmer
 Quality Assurance Representative