



BULL MOOSE TUBE ELKHART FACILITY
 CERTIFICATION OF TESTS
 EN 10204:2004 TYPE 3.1 CERT

03/30/15
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1819 Clarkson Rd.
 Chesterfield, Missouri 63017

ORIGINAL

Email nrea@bullmoosetube.com
 Phone 636-537-2600

BILL TO Ferre Barniedo, S.A. de C.V.
 Av. Revolucion No. 81
 San Cristobal- Ecatepec
 FINAL DEST.: SAN LUIS POTOSI
 San Cristobal- Ecatepec MX 55024

SHIP TO TAF Forwarding Agency
 TAF Forwarding Agency, Inc.
 1207 Uniroyal Drive-Unitek Ind. Park
 Patent#4100 Apd Jorge M. Medrano Sanchez
 FINAL DEST.: SAN LUIS POTOSI
 Laredo TX 78041

B/L Number 344586

Ship Via

TTPX_80818

12" X 6" X 0.500 HR X 40'
 152.4 X 304.8 mm
 ASTM A500-13 GRADE B & C

Ladle Analysis and Physicals

Order # 486346
 Purchase Order # 601198
 Item # 107744 3850
 Customer Item #

Raw Material is of Domestic Origin - Melted and Manufactured in the USA

Heat # = 540631-MIT

P NG

C	MN	P	S	AL	SI	CB	CU	CR	NI	V	MO	B	TI	N	CE	YLD psi	TSN psi	ELN %
.059	.761	.011	.006	.048	.016	.031	.024	.034	.011	.003	.002	0.000	.016	.005	.199	57980	68670	36

16" X 8" X 0.250 HR X 40'

203.2 X 406.4 mm
 ASTM A500-13 GRADE B & C

Ladle Analysis and Physicals

Order # 484082
 Purchase Order # 601184
 Item # 110840 5129
 Customer Item #

Customer Item #

Raw Material is of Domestic Origin - Melted and Manufactured in the USA

Heat # = C73920

P NG

C	MN	P	S	AL	SI	CB	CU	CR	NI	V	MO	B	TI	N	CE	YLD psi	TSN psi	ELN %
.050	.450	.010	.002	.024	.030	.016	.110	.060	.050	.001	.020	0.000	.002	.008	.157	57290	67880	32

16" X 8" X 0.312 HR X 40'

203.2 X 406.4 mm
 ASTM A500-13 GRADE B & C

Ladle Analysis and Physicals

Order # 486346
 Purchase Order # 601198
 Item # 107893 5129
 Customer Item #

Customer Item #

Raw Material is of Domestic Origin - Melted and Manufactured in the USA

Heat # = 540322

P NG

C	MN	P	S	AL	SI	CB	CU	CR	NI	V	MO	B	TI	N	CE	YLD psi	TSN psi	ELN %
.051	.770	.013	.006	.046	.020	0.000	.010	.030	.008	.002	.010	0.000	.016	.049	.192	62990	70700	35

16" X 8" X 0.312 HR X 40'

203.2 X 406.4 mm
 ASTM A500-13 GRADE B & C

Ladle Analysis and Physicals

Order # 486346
 Purchase Order # 601198
 Item # 107893 5129
 Customer Item #

Customer Item #

Raw Material is of Domestic Origin - Melted and Manufactured in the USA

Heat # = 439672

P NG

C	MN	P	S	AL	SI	CB	CU	CR	NI	V	MO	B	TI	N	CE	YLD psi	TSN psi	ELN %
.062	.761	.015	.005	.045	.016	.030	.008	.030	.008	.002	.002	0.000	.014	.004	.199	55100	66770	37

Quality Manager:

Robert Habes

THIS WELDED STEEL TUBING IS MANUFACTURED IN THE UNITED STATES OF AMERICA AND HAS BEEN PRODUCED IN ACCORDANCE WITH THE STATED SPECIFICATION. LADLE CHEMISTRIES ARE REPORTED FROM DOCUMENTS PROVIDED BY THE SUPPLYING STEEL MILL. ANY PHYSICAL AND MECHANICAL TESTING RESULTS SHOWN ON THIS CERTIFICATION ARE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY.



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152.4 X 304.8 mm

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Ladle Analysis and Physicals

Customer Item

Order # 486346

Purchase Order # 601198

Item # 107730 3850

#

Raw Material is of Domestic Origin - Melted and Manufactured in the USA

Heat # = S5297

P NG

C	MN	P	S	AL	SI	CB	CU	CR	NI	V	MO	B	TI	N	CE	YLD psi	TSN psi	ELN %
.060	.690	.009	.008	.028	.017	.022	.130	.080	.060	0.000	.020	0.000	.001	.006	.211	62740	71210	31

12" X 6" X 0.250 HR X 40'

152.4 X 304.8 mm

ASTM A500-13 GRADE B & C

Ladle Analysis and Physicals

Customer Item

Order # 486346

Purchase Order # 601198

Item # 107730 3850

#

Raw Material is of Domestic Origin - Melted and Manufactured in the USA

Heat # = S5283

P NG

C	MN	P	S	AL	SI	CB	CU	CR	NI	V	MO	B	TI	N	CE	YLD psi	TSN psi	ELN %
.050	.710	.008	.006	.036	.023	.023	.140	.070	.060	0.000	.030	0.000	.001	.006	.206	64360	72290	31

12" X 6" X 0.250 HR X 40'

152.4 X 304.8 mm

ASTM A500-13 GRADE B & C

Ladle Analysis and Physicals

Customer Item

Order # 486346

Purchase Order # 601198

Item # 107730 3850

#

Raw Material is of Domestic Origin - Melted and Manufactured in the USA

Heat # = S5277

P NG

C	MN	P	S	AL	SI	CB	CU	CR	NI	V	MO	B	TI	N	CE	YLD psi	TSN psi	ELN %
.040	.630	.009	.012	.034	.018	.023	.160	.080	.060	0.000	.020	0.000	.001	.006	.183	60810	68770	28

12" X 6" X 0.500 HR X 40'

152.4 X 304.8 mm

ASTM A500-13 GRADE B & C

Ladle Analysis and Physicals

Customer Item

Order # 486346

Purchase Order # 601198

Item # 107744 3850

#

Raw Material is of Domestic Origin - Melted and Manufactured in the USA

Heat # = 540631-MIT

P NG

C	MN	P	S	AL	SI	CB	CU	CR	NI	V	MO	B	TI	N	CE	YLD psi	TSN psi	ELN %
.059	.761	.011	.006	.048	.016	.031	.024	.034	.011	.003	.002	0.000	.016	.005	.199	57980	68670	36

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Order # 486346
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 Item # 107730 3850
 Customer Item #

Raw Material is of Domestic Origin - Melted and Manufactured in the USA

Heat # = V58581

P NG

C	MN	P	S	AL	SI	CB	CU	CR	NI	V	MO	B	TI	N	CE	YLD psi	TSN psi	ELN %
.080	.700	.011	.008	.045	.015	.039	.040	.060	.020	0.000	.005	0.000	.001	.004	.216	67800	73710	31

12" X 6" X 0.250 HR X 40'
 152.4 X 304.8 mm
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Ladle Analysis and Physicals

Order # 486346
 Purchase Order # 601198
 Item # 107730 3850
 Customer Item #

Raw Material is of Domestic Origin - Melted and Manufactured in the USA

Heat # = S5275

P NG

C	MN	P	S	AL	SI	CB	CU	CR	NI	V	MO	B	TI	N	CE	YLD psi	TSN psi	ELN %
.040	.660	.009	.006	.032	.027	.024	.150	.100	.070	0.000	.030	0.000	.001	.007	.195	62960	71200	31

16" X 8" X 0.250 HR X 40'
 203.2 X 406.4 mm
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Ladle Analysis and Physicals

Order # 484082
 Purchase Order # 601184
 Item # 110840 5129
 Customer Item #

Raw Material is of Domestic Origin - Melted and Manufactured in the USA

Heat # = C73920

P NG

C	MN	P	S	AL	SI	CB	CU	CR	NI	V	MO	B	TI	N	CE	YLD psi	TSN psi	ELN %
.050	.450	.010	.002	.024	.030	.016	.110	.060	.050	.001	.020	0.000	.002	.008	.157	57290	67880	32

16" X 8" X 0.312 HR X 40'
 203.2 X 406.4 mm
 ASTM A500-13 GRADE B & C

Ladle Analysis and Physicals

Order # 486346
 Purchase Order # 601198
 Item # 107893 5129
 Customer Item #

Raw Material is of Domestic Origin - Melted and Manufactured in the USA

Heat # = 540621

P NG

C	MN	P	S	AL	SI	CB	CU	CR	NI	V	MO	B	TI	N	CE	YLD psi	TSN psi	ELN %
.060	.743	.011	.005	.047	.012	.033	.011	.024	.008	.002	.002	0.000	.017	.005	.193	61210	69080	33

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Ladle Analysis and Physicals

Order # 484082

Purchase Order # 601184

Item # 119090 5129

Customer Item #

Raw Material is of Domestic Origin - Melted and Manufactured in the USA

Heat # = W04100

P NG

C	MN	P	S	AL	SI	CB	CU	CR	NI	V	MO	B	TI	N	CE	YLD psi	TSN psi	ELN %
.090	.660	.011	.009	.039	.017	.001	.050	.040	.020	.101	.006	0.000	.001	.005	.237	55510	75820	34

Quality Manager:

Robert Halverson

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