

CERTIFICATE OF ANALYSIS



1819 Clarkson Rd
 Chesterfield, MO 63017
 Phone: (636) 537-2600

Houston, TX 77029
 UNITED STATES

Houston, TX 77029
 UNITED STATES

Release Number: 572238
 Ship Date: 10/07/2022

Page: 1 of 3

Customer Information

PO #	SSW131133	END USE PO #	MULT
CPO #		USE END USER PO #	
PART #	See Line Items Below...	CUSTOMER PART #	
REV LEVEL		SO #	817281

Chemistry

Heat Number	E43674	MELTED AND MANUFACTURED IN THE USA							
C: 0.0900	Mn: 0.6500	P: 0.0120	S: 0.0070	Si: 0.0130	Cu: 0.0200	Al: 0.0340	V: 0.1010	Ni: 0.0100	Nb/CB:
Cr: 0.0300	Ti: 0.0010	Mo: 0.0050	B: 0.0001	CE: 0.21	N: 0.0030		Sn: 0.0020		

Tag No	200388759	Gage	0.6250	Width	12.0000	Length	540.0000	Weight	8.400	Coating		Prod Plant	ELKHART	Part Number	27680N625HR00AB45ST	Grade	A500 21 GRADE B	Tensile	68570	Yield	48140	Elong	37
Product	Hot Rolled				12" SQ X 0.625 HR X 45'								Cust PO: SSW131133										

Chemistry

Heat Number	D42858	MELTED AND MANUFACTURED IN THE USA																					
C: 0.0900	Mn: 0.6700	P: 0.0120	S: 0.0080	Si: 0.0140	Cu: 0.0200	Al: 0.0480	V: 0.1060	Ni: 0.0100	Nb/CB: 0.0020														
Cr: 0.0300	Ti: 0.0010	Mo: 0.0040	B: 0.0001	CE: 0.213	N: 0.0060		Sn: 0.0010																

Tag No	200443705	Gage	0.2500	Width	5.0000	Length	480.0000	Weight	7.718	Coating		Prod Plant	ELKHART	Part Number	33210N250HR00AB40ST	Grade	A500 21 GRADE B & C	Tensile	74638	Yield	56922	Elong	29
Product	Hot Rolled				10" X 5" X 0.250 HR X 40'								Cust PO: SSW131133										

EN 10204:2004 TYPE 3.1 CERT

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10/07/2022 16:47:21

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BULL MOOSE
 TUBE
 1819 Clarkson Rd.
 Chesterfield, MO 63017
 Phone: (636) 537-2600

BILL TO:
 Houston, TX 77029
 UNITED STATES

SHIP TO:
 15 Clinton Dr.
 Houston, TX 77029
 UNITED STATES

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Chemistry		Heat Number	B1078		MELTED AND MANUFACTURED IN THE USA									
Cr: .05	Mn: .69	P: .013	S: .006	Si: .02	Cu: .15	Al: .027	V: .002	Ni: .04	Nb/CB:					
Cr: .07	Ti: .001	Mo: .01	B: .0000	CE: 0.197	N: .007	CA: .0025	Sn: .04							

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200212051	0.3120	12.0000	432.0000	3.517		ELKHART	27680N312HR00AB36ST	A500 21 GRADE B & C	69042	59554	34
Hot Rolled 12" SQ X 0.312 HR X 36" Cust PO: SSW131133											

Chemistry		Heat Number	9406260M22		MELTED AND MANUFACTURED IN THE USA									
C: 0.0600	Mn: 0.5100	P: 0.0120	S: 0.0020	Si: 0.0200	Cu: 0.0300	Al: 0.0410	V: 0.0020	Ni: 0.0100	Nb/CB: 0.0260					
Cr: 0.0500	Ti: 0.0010	Mo: 0.0100	B: 0.0001	CE: 0.163	N: 0.0023	CA: 0.0045	Sn: 0.0020							

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200455627	0.3750	6.0000	480.0000	10.269		ELKHART	33850N375HR00AB40ST	A500 21 GRADE B & C	66007	53431	34
Hot Rolled 12" X 6" X 0.375 HR X 40" Cust PO: SSW131133											

Chemistry		Heat Number	832W40640		MELTED AND MANUFACTURED IN THE USA									
C: .05	Mn: .59	P: .007	S: .006	Si: .021	Cu: .027	Al: .040	V: .001	Ni: .01	Nb/CB: .021					
Cr: .03	Ti: .002	Mo: .003	B: .0002	CE: 0.161	N: .004									

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200212052	0.3120	12.0000	432.0000	3.517		ELKHART	27680N312HR00AB36ST	A500 21 GRADE B & C	65159	54907	35
Hot Rolled 12" SQ X 0.312 HR X 36" Cust PO: SSW131133											

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Chemistry		Heat Number	MELTED AND MANUFACTURED IN THE USA														
C:	0.0600	Mn: 0.4900	P:	0.0100	S:	0.0050	Si:	0.0200	Cu:	0.0200	Al:	0.0320	V:	0.0320	Ni:	0.0100	Nb/CB:
Cr:	0.0400	Ti:	0.0010	Mo:	0.0100	B:	0.0001	CE:	0.157	N:	0.0044	CA:	0.0046	Sr:	0.0010		

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200443718	0.2500	5.0000	480.0000	7.718		ELKHART	33210N250HR00AB40ST	A500 21 GRADE B & C	66045	55745	35
Hot Rolled 10" X 5" X 0.250 HR X 40' Cust PO: SSW131133											

Chemistry		Heat Number	MELTED AND MANUFACTURED IN THE USA																
C:	0.0540	Mn:	1.5900	P:	0.0030	S:	0.0030	Si:	0.2300	Cu:	0.0300	Al:	0.0320	V:	0.0020	Ni:	0.0160	Nb/CB:	0.0650
Cr:	0.2100	Ti:	0.0150	Mo:	0.1500	B:		CE:	0.432	N:	0.0030	CA:	0.0010						

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200389423	0.5000	12.0000	600.0000	7.607		ELKHART	27680N500HR00DC500H	A500 21 B & C MELTED & MFG USA	97251	68226	32
Hot Rolled 12" SQ X 0.500 HR X 50' Cust PO: SSW131133											

Total Certificate Weight: 48,746 LBS 22,110.8 KGS

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.

Mark Miller
 Mark Miller
 Corporate Quality Manager

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