

CERTIFICATE OF ANALYSIS



**BULL MOOSE
TUBE**

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

Release Number: 577574
 Ship Date: 12/15/2022

Customer Information

PO #	SSW132485	END USE PO #	
CPO #		USE END USER PO #	
PART #	See Line Items Below...	CUSTOMER PART #	
REV LEVEL		SO #	822073

Chemistry	Heat Number	Y49218								
C: 0.0900	Mn: 0.6200	P: 0.0080	S: 0.0070	Si: 0.0230	Cu: 0.0200	Al: 0.0480	V: 0.1010	Ni: 0.0100	Nb/CB:	
Cr: 0.0400	Ti: 0.0010	Mo: 0.0080	B: 0.0002	CE: 0.209	N: 0.0050	Sn: 0.0020				

Tag No Product	Gage	Width	Length	Weight Tag As	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
20054119 Hot Rolled	0.3750	4.0000	480.0000	8.053		ELKHART	32563N375HR00DC40OH Cust PO: SSW132485	A500 21 B & C MELTED & MFG USA	75587	59225	32

Chemistry	Heat Number	B2217310									
C: 0.0600	Mn: 0.5400	P: 0.0060	S:	Si: 0.0300	Cu: 0.1100	Al: 0.0340	V: 0.0040	Ni: 0.0400	Nb/CB:		
Cr: 0.0500	Ti: 0.0010	Mo: 0.0100	B:	CE: 0.177	N: 0.0110	CA: 0.0030	Sn: 0.0050				

Tag No Product	Gage	Width	Length	Weight Tag As	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200551199 Hot Rolled	0.1870	6.0000	576.0000	7.378		ELKHART	33844N187HR00AB48ST Cust PO: SSW132485	A500 21 GRADE B & C	71403	62662	31
200551204 Hot Rolled	0.1870	6.0000	480.0000	6.148		ELKHART	33844N187HR00AB40ST Cust PO: SSW132485	A500 21 GRADE B & C	71403	62662	31

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200551216 0.1870 6.0000 480.0000 6,148 ELKHART 33844N187HR00AB40ST 71403 62662 31
 Hot Rolled 8" X 6" X 0.187 HR X 40' Cust PO: SSW132485 A500 21 GRADE B & C

Chemistry		Heat Number	MELTED AND MANUFACTURED IN THE USA							
C: 0.0600	Mn: 0.6200	P: 0.0130	S: 0.0030	Si: 0.0310	Cu: 0.0110	Al: 0.0480	V: 0.0010	Ni: 0.0100	Nb/CB: 0.0250	
Cr: 0.0300	Ti: 0.0020	Mo: 0.0050	B: 0.0002	CE: 0.177	N: 0.0040					

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
Product				Tag As							
200519262	0.1250	4.0000	480.0000	4,134		ELKHART	22560N125HR00AB40ST		67040	57311	27
Hot Rolled		4" SQ X 0.125 HR X 40'					Cust PO: SSW132485	A500 21 GRADE B & C			
200519267	0.1250	4.0000	480.0000	4,134		ELKHART	22560N125HR00AB40ST		67040	57311	27
Hot Rolled		4" SQ X 0.125 HR X 40'					Cust PO: SSW132485	A500 21 GRADE B & C			

Chemistry		Heat Number	MELTED AND MANUFACTURED IN THE USA							
C: 0.0600	Mn: 0.6000	P: 0.0080	S: 0.0030	Si: 0.0240	Cu: 0.0250	Al: 0.0430	V: 0.0010	Ni: 0.0100	Nb/CB: 0.0230	
Cr: 0.0300	Ti: 0.0020	Mo: 0.0030	B: 0.0002	CE: 0.173	N: 0.0040					

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
Product				Tag As							
200526671	0.2500	8.0000	480.0000	6,196		ELKHART	25120N250HR00AC40ST		66683	55947	29
Hot Rolled		8" SQ X 0.250 HR X 40'					Cust PO: SSW132485	A500 21 GRADE B & C			

Chemistry		Heat Number	MELTED AND MANUFACTURED IN THE USA							
C: 0.0400	Mn: 0.6900	P: 0.0100	S: 0.0030	Si: 0.0400	Cu: 0.1100	Al: 0.0260	V: 0.0020	Ni: 0.0500	Nb/CB: 0.0170	
Cr: 0.0600	Ti:	Mo: 0.0200	B: 0.0004	CE: 0.188	N: 0.0080	CA: 0.0020	Sn: 0.0060			

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Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
Product				Tag As							
200527927	0.1250	2.0000	480.0000	3,876		ELKHART	31296N125HR00AB40ST		66538	59349	28
Hot Rolled		6" X 2" X 0.125 HR X 40'					Cust PO: SSW132485	A500 21 GRADE B & C			

Total Certificate Weight: 46,067 LBS 20,895.6 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
 Corporate Quality Manager