

**CERTIFICATE OF ANALYSIS**

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

8415 Clinton Dr.  
 Houston, TX 77029  
 UNITED STATES

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 Houston, TX 77029  
 UNITED STATES

Release Number: 583971  
 Ship Date: 3/08/2023

Page: 1 of 3

**Customer Information**

PO #	SSW134142	END USE PO #	
CPO #		USE END USER PO #	
PART #	See Line Items Below...	CUSTOMER PART #	
REV LEVEL		SO #	827751

**Chemistry**

Heat Number	W46905	MELTED AND MANUFACTURED IN THE USA							
C: 0.0700	Mn: 0.8200	P: 0.0090	S: 0.0060	Si: 0.0120	Cu: 0.0200	Al: 0.0510	V: 0.0010	Ni: 0.0090	Nb/CB: 0.0290
Cr: 0.0400	Ti: 0.0300	Mo: 0.0100	B: 0.0002	CE: 0.221	N: 0.0090		Sn: 0.0020		

**Tag No Product**

200618110	0.6250	8.0000	576.0000	5.695	76974	64222	32
Hot Rolled	8" SQ X 0.625 HR X 48'	CASA GRANDE 25120N625HR00AB48ST		A500 21 GRADE B & C			
		Cust PO: SSW134142					

**Chemistry**

Heat Number	B4251	MELTED AND MANUFACTURED IN THE USA							
C: 0.0500	Mn: 0.6500	P: 0.0150	S: 0.0110	Si: 0.0200	Cu: 0.1500	Al: 0.0350	V: 0.0050	Ni: 0.0700	Nb/CB: 0.0230
Cr: 0.1000	Ti: 0.0020	Mo: 0.0200	B: 0.0004	CE: 0.2	N: 0.0090	CA: 0.0031	Sn: 0.0300		

**Tag No Product**

200563326	0.2500	5.0000	576.0000	6.747	69793	57133	33
Hot Rolled	5" SQ X 0.250 HR X 48'	CASA GRANDE 23200N250HR00AB48MC		A500 21 GRADE B & C			
		Cust PO: SSW134142					

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Page: 2 of 3

<b>Chemistry</b>									
MELTED AND MANUFACTURED IN THE USA									
Heat Number	823Y71720								
C: 0.0600	Mn: 0.6000	P: 0.0130	S: 0.0030	Si: 0.0200	Cu: 0.0130	Al: 0.0530	V: 0.0010	Ni: 0.0100	Nb/CB: 0.0230
Cr: 0.0200	Ti: 0.0020	Mo: 0.0020	B: 0.0002	CE: 0.169	N: 0.0050				

Tag No	Product	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200554345	Hot Rolled	0.2500	4.0000	576.0000	9.377	Tag As	CASA GRANDE	22560N250HR00AB48CS	A500 21 GRADE B & C	65992	54465	34
4" SQ X 0.250 HR X 48'												
Cust PO: SSW134142												


<b>Chemistry</b>											
MELTED AND MANUFACTURED IN THE USA											
Heat Number	22243700										
C: 0.0300	Mn: 0.7300	P: 0.0120	S: 0.0030	Si: 0.0400	Cu: 0.0120	Al: 0.0390	V: 0.0010	Ni: 0.0500	Nb/CB:		
Cr: 0.0700	Ti:	Mo: 0.0200	B: 0.0003	CE: 0.18	N: 0.0070	CA: 0.0020	Sn: 0.0060				

Tag No	Product	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200556587	Hot Rolled	0.2500	8.0000	576.0000	1,239	Tag As	CASA GRANDE	25120N250HR00AB48ST	A500 21 GRADE B & C	72267	59696	34
8" SQ X 0.250 HR X 48'												
Cust PO: SSW134142												

<b>Chemistry</b>											
MELTED AND MANUFACTURED IN THE USA											
Heat Number	12243750										
C: 0.0400	Mn: 0.7100	P: 0.0120	S: 0.0040	Si: 0.0300	Cu: 0.1200	Al: 0.0250	V: 0.0010	Ni: 0.0400	Nb/CB: 0.0180		
Cr: 0.0700	Ti: 0.0010	Mo: 0.0200	B: 0.0001	CE: 0.192	N: 0.0080	CA: 0.0020	Sn: 0.0050				

Tag No	Product	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200556575	Hot Rolled	0.2500	8.0000	576.0000	7,436	Tag As	CASA GRANDE	25120N250HR00AB48ST	A500 21 GRADE B & C	64534	53442	34
8" SQ X 0.250 HR X 48'												
Cust PO: SSW134142												

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Release Number: 583971  
 Ship Date: 3/08/2023  
 200556586 0.2500 8.0000 576.0000 6,197 64534 53442 34  
 8" SQ X 0.250 HR X 48'  
 Hot Rolled  
 CASA GRANDE 25120N250HR00AB48ST  
 Cust PO: SSW134142 A500 21 GRADE B & C

**Total Certificate Weight: 36,691 LBS 16,641.9 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

