

CERTIFICATE OF ANALYSIS



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

8415 Clinton Dr.
 Houston, TX 77029
 UNITED STATES

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Release Number: 580060
 Ship Date: 1/24/2023

Customer Information
 SSW132485, SSW133180

PO #

CPO #

PART # See Line Items Below...

REV LEVEL

Chemistry Heat Number SM7584

C: 0.0600 Mn: 0.3900 P: 0.0070 S: 0.0030 Si: 0.0190 Cu: 0.1200 Al: 0.0290 V: 0.0020 Ni: 0.0400 Nb/CB: 0.0010

Cr: 0.0700 Ti: 0.0010 Mo: 0.0200 B: 0.0001 CE: 0.157 N: 0.0050 CA: 0.0017 Sn: 0.0030

Tag No Gage Width Length Weight Coating Tag As

Product 200604626 0.0830 2.0000 240.0000 2.120

Hot Rolled Trenton 21280N083HR09AL20ST A513 20 AWHR/AWPO

Chemistry Heat Number SM6612

C: 0.2000 Mn: 0.4200 P: 0.0050 S: 0.0020 Si: 0.0220 Cu: 0.1200 Al: 0.0280 V: 0.0020 Ni: 0.0300 Nb/CB: 0.0070

Cr: 0.0400 Ti: 0.0010 Mo: 0.0200 B: 0.0002 CE: 0.296 N: 0.0071 CA: 0.0018 Sn: 0.0010

Tag No Gage Width Length Weight Coating Tag As

Product 200548213 0.2500 4.0000 480.0000 3.804

Hot Rolled Trenton 32565N250HR00AB40ST A500 21 GRADE B & C

Grade Tensile Yield Elong

75545 55389 35.7

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Printed By: "BOL-Scheduler" 1/24/2023 23:35:03

EN 10204:2004 TYPE 3.1 CERT

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Chemistry	Heat Number	NM7578	S: 0.0030	Si: 0.0240	Cu: 0.1200	Al: 0.0220	V: 0.0020	Ni: 0.0400	Nb/CB: 0.0010
C: 0.0600	Mn: 0.3700	P: 0.0070	B: 0.0001	CE: 0.148	N: 0.0051	CA: 0.0034	Sn: 0.0040		
Cr: 0.0500	Ti: 0.0010	Mo: 0.0100							

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200605276	0.0830	2.0000	288.0000	2.544	Tag As	TRENTON	21280N083HR09AL24ST	A513 20 AWHR/AWPO	0	0	0
							Cust PO: SSW133180				

Hot Rolled						TRENTON	20960N120HR09AL24ST	A513 20 AWHR/AWPO	0	0	0
200595706	0.1200	1.5000	288.0000	4.377		TRENTON	20960N120HR09AL24ST	A513 20 AWHR/AWPO	0	0	0
							Cust PO: SSW133180				
Hot Rolled						TRENTON	20960N120HR09AL24ST	A513 20 AWHR/AWPO	0	0	0
200595799	0.1200	1.5000	288.0000	4.377		TRENTON	20960N120HR09AL24ST	A513 20 AWHR/AWPO	0	0	0
							Cust PO: SSW133180				
Hot Rolled						TRENTON	20960N120HR09AL24ST	A513 20 AWHR/AWPO	0	0	0

Chemistry	Heat Number	NM7190	S: 0.0030	Si: 0.0250	Cu: 0.1000	Al: 0.0300	V: 0.0030	Ni: 0.0300	Nb/CB: 0.0040
C: 0.0600	Mn: 0.5300	P: 0.0070	B: 0.0001	CE: 0.173	N: 0.0060	CA: 0.0021	Sn: 0.0030		
Cr: 0.0500	Ti: 0.0010	Mo: 0.0100							

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200580263	0.2500	2.5000	288.0000	4.266	Tag As	TRENTON	21600N250HR00AB24ST	A500 21 GRADE B & C	71068	68046	23.0
							Cust PO: SSW133180				

Chemistry	Heat Number	NM6787	S: 0.0020	Si: 0.0240	Cu: 0.1100	Al: 0.0280	V: 0.0030	Ni: 0.0300	Nb/CB: 0.0040
C: 0.0600	Mn: 0.5500	P: 0.0080	B: 0.0001	CE: 0.177	N: 0.0071	CA: 0.0016	Sn: 0.0030		
Cr: 0.0500	Ti: 0.0010	Mo: 0.0100							

EN 10204:2004 TYPE 3.1 CERT

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Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200579332	0.1870	2.5000	288.0000	3.354		TRENTON	21600N187HR00AB24ST	A500 21 GRADE B & C	67200	63510	28
Hot Rolled											
		2.5"	SQ X 0.187 HR X 24'			Cust PO: SSW133180					
200579347	0.1870	2.5000	288.0000	3.354		TRENTON	21600N187HR00AB24ST	A500 21 GRADE B & C	67200	63510	28
Hot Rolled											
		2.5"	SQ X 0.187 HR X 24'			Cust PO: SSW133180					

MELTED AND MANUFACTURED IN THE USA

Chemistry	Heat Number	NM6302	S: 0.0040	Si: 0.0340	Cu: 0.1200	Al: 0.0320	V: 0.0030	Ni: 0.0300	Nb/CB: 0.0040
C: 0.0600	Mn: 0.5600	P: 0.0080							
Cr: 0.0700	Ti: 0.0010	Mo: 0.0100	B: 0.0004	CE: 0.185	N: 0.0088	CA: 0.0021	Sn: 0.0020		

MELTED AND MANUFACTURED IN THE USA

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200552453	0.1870	2.0000	480.0000	6.220		TRENTON	21280N187HR00AB40ST	A500 21 GRADE B & C	67862	61332	33.45
Hot Rolled											
		2"	SQ X 0.187 HR X 40'			Cust PO: SSW132485					

MELTED AND MANUFACTURED IN THE USA

Chemistry	Heat Number	231145	S: 0.0040	Si: 0.0200	Cu: 0.0170	Al: 0.0480	V: 0.0010	Ni: 0.0100	Nb/CB: 0.0320
C: 0.0564	Mn: 0.9100	P: 0.0040							
Cr: 0.0200	Ti: 0.0010	Mo: 0.0030	B: 0.0001	CE: 0.218	N: 0.0050	CA: 0.0016			

MELTED AND MANUFACTURED IN THE USA

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
200431100	0.2500	2.0000	288.0000	4.674		TRENTON	21280N250HR00AJ24ST	A500 21 80 MY	85968	83906	20.0
Hot Rolled											
		2"	SQ X 0.250 HR X 24'			Cust PO: SSW132485					
200431133	0.2500	2.0000	288.0000	4.674		TRENTON	21280N250HR00AJ24ST	A500 21 80 MY	85968	83906	20.0
Hot Rolled											
		2"	SQ X 0.250 HR X 24'			Cust PO: SSW132485					

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Chemistry	Heat Number	22148831							
C: 0.0500	Mn: 0.3700	P: 0.0110	S: 0.0030	Si: 0.0300	Cu: 0.0900	Al: 0.0310	V: 0.0030	Ni: 0.0400	Nb/CB:
Cr: 0.0600	Ti: 0.0010	Mo: 0.0170	B: 0.0002	CE: 0.141	N: 0.0070	CA: 0.0021	Sn: 0.0038		

Tag No	Gage	Width	Length	Weight	Coating	Prod Plant	Part Number	Grade	Tensile	Yield	Elong
Product				Tag As							
200554138	0.1200	1.2500	240.0000	3.688		TRENTON	20800N120HR09AL20ST	A513 20 AWHR/AWPO	0	0	0
Hot Rolled		1.25"	SQ X 0.120	HR X 20'			Cust PO: SSW132485				

Total Certificate Weight: 47,452 LBS 21,523.9 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

