

MILL TEST CERTIFICATE

A02 - EN 10204 3.1

A06 - BOL No	PS084121	B01 - Standard	ASTM A53	B02 - Material	GR A
Release No	REL013927	A06 - Customer Name	TEXAS PIPE & SUPPLY COMPANY, LTD	A07 - Sales Order	SO-009196
B01 - Product	ERW STEEL PIPES	Customer PO	321031		

No.	B09 - B10 - B11		B06 - B12 - B13				B04	D51		BD	D03	EL	NP	External Coating Norm	UL/FM	Delivery Condition
	NPS (inch)	WT (inch)	Length (Feet)	Pieces	Feet	Actual Weight	Pipe Type	HT Psi	HT Sec		NDT					
1	1"	0.133	21.00	1320	27,720.00	46,569.60	Varnished Plain End	700	5	30	OK	0.00	0.00	RAL 9005		.

No.	B07	C71															
	Heat No	C	Si	Mn	P	S	Al	V	Nb	Ti	Mo	Cr	Ni	Cu	N	B	Ceq
1	P113585	12.9	2.9	62.4	19.4	18.7	39.6	1.6	1.3	1.0	1.6	24.3	9.1	5.6	2.1	0.0	239.8
1	P113605	12.5	2.4	56.2	16.7	17.4	47.5	1.2	1.2	1.0	3.7	20.6	20.7	5.5	2.8	0.0	225.5
1	P113567	12.2	2.9	59.1	11.4	19.7	52.9	1.3	1.1	1.0	1.5	23.1	10.5	8.3	2.4	0.1	227.0
1	T1303132	4.5	2.3	34.6	11.2	6.2	36.4	0.5	1.2	1.1	18.5	20.6	99.2	288.2	4.6	0.2	0.1
1	T1303019	4.7	1.7	35.4	10.9	5.1	25.0	0.3	0.5	0.9	17.9	29.1	95.3	284.3	6.5	0.2	0.1
1	NA03427	7.6	1.4	21.4	17.4	11.0	38.5	1.2	0.6	0.9	19.4	57.6	78.7	248.3	3.6	0.3	0.1
1	NA03426	5.8	2.0	22.0	18.2	11.0	48.0	0.9	0.5	1.0	18.6	55.4	79.6	275.4	5.0	0.5	0.1
1	T1302949	4.6	2.2	35.9	4.9	3.1	34.6	1.0	2.2	1.3	16.4	25.6	83.4	279.9	4.5	0.2	0.1

No.	B07	C11	C12	C13
	Heat No	Re Psi	Rm Psi	A %
1	P113585	64.542	68.748	35
1	P113605	60.481	65.558	35
1	P113567	56.855	62.947	35
1	T1303132	58.741	60.626	35
1	T1303019	55.115	63.237	35
1	NA03427	62.657	64.252	35
1	NA03426	59.756	61.206	37
1	T1302949	56.420	60.626	36

BD	Bevel Degree	Re	Yield Strength	1.Kind of steel	FF:Fully Killed	ITHL	Charpy Haz Longitudinal	CHMax	Charpy Haz Max
VD	Visual & Dimensions	Rm	Tensile Strength	2.Direction	L: Longitudinal	ITHD	Charpy Haz Diagonal	CHMin	Charpy Haz Min
FB	Flattening-Bending	A%	Elongation		Q:Transverse	ITHT	Charpy Haz Transverse	CMMax	Charpy Material Max
DE	Drift Expanding	AVE	Average		ITWD	ITHD	Charpy Material Diagonal	CMMin	Charpy Material Min

Description

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C	Coating	HT	Hydrostatic Test	3.Sampling Position	B:Base	ITMT	Charpy Material Transverse	CWMax	Charpy Welding Max
EL	Effective Length	NP	Number per inch		W:Weld	ITMI	Charpy Material Longitudinal	CWMin	Charpy Material Min
OK	OK				H:Haz	ITWT	Charpy Material Transverse	NP	Full Pipe Normalised
				4. Impact type	U Type	CWLon	Charpy Material Longitudinal	NW	Normalised Weld Zone
					V Type	CWDia	Charpy Material Diagonal	AW	As Welded
<p>Note Description</p> <p>We hereby certify that the material described above complies with the terms of order contract. The values for the C, Mn and Si elements have been multiplied by 100 and the remaining chemical elements' values have been multiplied by 1000</p>						<p>Destructive Tests & Visual Inspections</p> <p>DE OK - C53 VD OK - D01 FB OK - C50 - C52 C OK</p>			

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