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K2
Date
7/1/2022

MILL TEST CERTIFICATE

A02 - EN 10204 3.1

A06 - BOL No PS079976 **B01 - Standard** ASTMCOM **B02 - Material** GR A
Release No REL013196 **A06 - Customer Name** **A07 - Sales Order** SO-008804
B01 - Product ERW STEEL PIPES **Customer PO** 312109

No.	B09 - B10 - B11		B06 - B12 - B13			Actual Weight	B04 Pipe Type	D51		BD	D03 NDT	EL	NP	External Coating Norm	UL/FM	Delivery Condition
	NPS (inch)	WT (inch)	Length (Feet)	Pieces	Feet			HT Psi	HT Sec							
1	1/2"	0.109	21.00	600	12,600.00	10,836.00	Varnished Thread&Couple	700	5	30	OK	0.00	14.00	ASTM A53		.

No.	Heat No	C71															
		C	Si	Mn	P	S	Al	V	Nb	Ti	Mo	Cr	Ni	Cu	N	B	Ceq
1	Y218863	11.8	1.7	69.3	14.2	19.5	39.8	0.9	1.6	1.0	1.1	21.0	18.8	27.0	5.9	0.0	240.8
1	NA00187	5.4	1.8	24.0	10.8	8.6	27.2	0.5	0.0	1.2	17.1	72.6	76.3	242.2	8.0	0.0	133.6
1	NA00185	6.5	1.5	21.6	17.3	10.8	37.8	1.7	0.4	1.4	17.8	65.8	73.6	241.4	4.6	0.0	138.6
1	NA00184	5.5	2.2	22.2	11.9	5.8	24.3	0.8	0.0	1.2	19.0	83.0	95.6	280.9	8.4	0.0	137.3
1	NA00194	7.1	1.5	22.4	5.0	15.2	53.3	0.8	0.0	0.9	24.3	100.9	73.1	229.4	1.3	0.6	153.5
1	Y218916	11.8	2.6	46.5	16.5	11.5	32.7	0.7	0.9	0.8	1.8	33.0	24.7	45.8	5.3	0.0	207.3

No.	Heat No	B07	C11	C12	C13
		Re Psi	Rm Psi	A %	
1	Y218863	55.985	66.718	18	
1	NA00187	63.817	67.298	35	
1	NA00185	63.382	65.122	36	
1	NA00184	61.932	65.268	36	
1	NA00194	55.840	58.596	40	
1	Y218916	61.206	70.779	35	

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	Flattenning-Bending	A%	Elongation		Q:Transverse	ITHT	Charpy Haz Transverse	CMMMax	Charpy Material Max
DE	Drift Expanding	AVE	Average		ITWD	ITHD	Charpy Material Diagonal	CMMin	Charpy Material Min
C	Coating	HT	Hydrostatic Test	3.Sampling Position	B:Base	ITMT	Charpy Material Transverse	CWMMax	Charpy Welding Max
EL	Effective Length	NP	Number per inch		W:Weld	ITMI	Charpy Material Longitudinal	CWMin	Charpy Material Min
OK	OK			4. Impact type	H:Haz	ITWT	Charpy Material Transverse	NP	Full Pipe Normalised
					U Type	CWLon	Charpy Material Longitudinal	NW	Normalised Weld Zone

Description

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B01 - Product	ERW STEEL PIPES	Customer PO	312109		

Note
Description

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

V Type

CW/Dia

Charpy Material Diagonal

AW

As Welded

Destructive Tests & Visual Inspections
DE OK - C53 VD OK - D01
FB OK - C50 - C52 C OK

Description

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