



JSW STEEL (USA) INC.
5200 E. McKinney Rd
Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37455

Sample No.: K26076881

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37455

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Type	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Ti	Al	N	V	B	Nb	Ca	Zr	CE	PCM	V+Nb+Ti
Min. Req.	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	0.0000	0.00	0.0000	0.000	0.00	0.00	0.00
Max. Req.	0.12	1.60	0.025	0.015	0.45	0.50	0.50	0.50	0.50	0.000	0.000	0.000	0.00	0.0010	0.00	0.0000	0.000	0.43	0.25	0.15
Ladle	0.08	1.60	0.014	0.001	0.24	0.04	0.01	0.03	0.00	0.013	0.036	0.003	0.06	0.0001	0.07	0.0020	0.000	0.37	0.18	0.13
Product1	0.09	1.67	0.012	0.005	0.24	0.03	0.00	0.01	0.00	0.012	0.027	0.008	0.05	0.0000	0.06	0.0020	0.000	0.38	0.19	0.12
Product2	0.09	1.64	0.013	0.005	0.25	0.04	0.01	0.03	0.00	0.012	0.031	0.004	0.05	0.0000	0.06	0.0023	0.000	0.38	0.19	0.12

Mechanical Testing

N/O/L	Specimen Type	Width/Dia (inch)	Thick (inch)	Yield (PSI)	Tensile (PSI)	Elong (%)	Y/T Ratio	Remarks
1T180	ROUND	0.25	0.500	74500	85700	20	0.87	
1W	RECT	1.54	0.517		91800			BROKEN FROM BASE METAL

Guided Bend

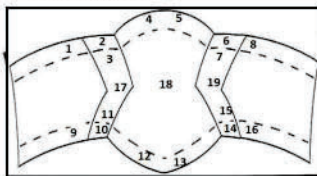
N/O/L	Root	Face
2W	OK	OK

Hydrostatic Test

TEST PRESS. PSI	HOLDING TIME (sec)
2070	20

Hardness Tests

Orientation: 1W



(HV10 - Scale)

MACRO OK

1: 196 8: 196 15: 188
2: 201 9: 198 16: 193
3: 204 10: 195 17: 195
4: 216 11: 192 18: 225
5: 220 12: 220 19: 188
6: 195 13: 215
7: 188 14: 189

DWTT Tests

Shear

Orien tation	Temp	1 (%)	2 (%)	Avg (%)
2T90	0 F	90	95	93

PRESSED NOTCH

DWTT for Information Only



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Wall (in): 0.500

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Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

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PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Charpy Impact Test												
N/O/L	Spec Size	Temp	Acc. Criteria (Avg/Min)	Ft lb1	Ft lb2	Ft lb3	Ft lb avg	Shear Acc. Criteria (Avg/Min)	Shear1 (%)	Shear2 (%)	Shear3 (%)	Shear Avg (%)
3T90	0.394x0.394 in	-20 F	40/30	211	206	213	210	85/-	100	100	100	100
			Full Size Values:	211	206	213	210		100	100	100	100
3W	0.394x0.394 in	-20 F	27/20	120	123	118	120	-				
			Full Size Values:	120	123	118	120					
3HAZ	0.394x0.394 in	-20 F	27/20	219	214	221	218	-				
			Full Size Values:	219	214	221	218					

Fracture Toughness Criteria: Charpy tests were performed on a 240ft-lbs Satec Charpy pendulum with 8mm striker. Values higher than 192 ft-lbs. exceed 80% of capacity and are considered approximate in accordance with ASTM E23.

Pipes Certified For This HEAT

J26071579	K26076708	K26076732	K26076881	K26077127	K26077976	K26077984	K26077992		K26078018
K26078051	K26078069	K26078077	K26078085	K26078093	K26078107	K26078654	K26079103	K26079111	K26079642
K26079651	K26079669	K26079677	K26079685	K26079693	K26079782	K26080111	K26080128		

The material has been manufactured, sampled, tested, and inspected in accordance with this spec(API5L) and has been found to meet the requirements. These pipes are also made in accordance with ISO 9001:2008/API Q1 and JSW Steel Quality requirements. I/We certify the above to be correct as obtained in the records of the company. The processing, product conformance verification, and API Monogram application were performed by an authorized API licence holder.

Bhavin Patel
QA ENGINEER



JSW STEEL (USA) INC.
5200 E. McKinney Rd
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Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37461

Sample No.: K26074391

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37461

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

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END X-RAY: 8" (ASTM - B PENETRAMEETER)

Type	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Ti	Al	N	V	B	Nb	Ca	Zr	CE	PCM	V+Nb+Ti
Min. Req.	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	0.0000	0.00	0.0000	0.000	0.00	0.00	0.00
Max. Req.	0.12	1.60	0.025	0.015	0.45	0.50	0.50	0.50	0.50	0.000	0.000	0.000	0.00	0.0010	0.00	0.0000	0.000	0.43	0.25	0.15
Ladle	0.08	1.60	0.013	0.001	0.24	0.03	0.01	0.02	0.00	0.013	0.034	0.004	0.06	0.0001	0.06	0.0020	0.000	0.36	0.18	0.13
Product1	0.08	1.62	0.007	0.005	0.24	0.03	0.00	0.02	0.00	0.010	0.027	0.003	0.05	0.0000	0.05	0.0020	0.000	0.37	0.18	0.11
Product2	0.08	1.64	0.008	0.006	0.26	0.02	0.00	0.02	0.00	0.012	0.033	0.006	0.05	0.0000	0.06	0.0018	0.000	0.37	0.18	0.11

Mechanical Testing

N/O/L	Specimen Type	Width/Dia (inch)	Thick (inch)	Yield (PSI)	Tensile (PSI)	Elong (%)	Y/T Ratio	Remarks
1T180	ROUND	0.25	0.500	78100	86900	19	0.90	
1W	RECT	1.55	0.524		93200			BROKEN FROM BASE METAL

Guided Bend

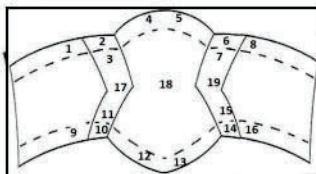
N/O/L	Root	Face
2W	OK	OK

Hydrostatic Test

TEST PRESS. PSI	HOLDING TIME (sec)
2070	20

Hardness Tests

Orientation: 1W



(HV10 - Scale)

MACRO OK

1: 207 8: 202 15: 187
2: 199 9: 195 16: 196
3: 196 10: 189 17: 197
4: 224 11: 192 18: 213
5: 229 12: 227 19: 195
6: 191 13: 222
7: 199 14: 188

DWTT Tests

Shear

Orien tation	Temp	1 (%)	2 (%)	Avg (%)
2T90	0 F	95	95	95

PRESSED NOTCH

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MTR No.: JPM37985-1-S37461

Sample No.: K26074391

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37461

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Charpy Impact Test													
N/O/L	Spec Size	Temp	Acc. Criteria (Avg/Min)	Ft lb1	Ft lb2	Ft lb3	Ft lb avg	Shear Acc. Criteria (Avg/Min)	Shear1 (%)	Shear2 (%)	Shear3 (%)	Shear Avg (%)	
3T90	0.394x0.394 in	-20 F	40/30	187	197	193	192	85/-	95	95	95	95	
			Full Size Values:	187	197	193	192		95	95	95	95	
3W	0.394x0.394 in	-20 F	27/20	116	121	118	118	-					
			Full Size Values:	116	121	118	118						
3HAZ	0.394x0.394 in	-20 F	27/20	194	200	190	195	-					
			Full Size Values:	194	200	190	195						

Fracture Toughness Criteria: Charpy tests were performed on a 240ft-lbs Satec Charpy pendulum with 8mm striker. Values higher than 192 ft-lbs. exceed 80% of capacity and are considered approximate in accordance with ASTM E23.

Pipes Certified For This HEAT

J26070181 J26070191 K26073491 K26073661 K26073709 K26073725 K26074391 K26075493 K26076503 K26079189
K26079235 K26079243 K26079431 K26079481 K26080039

The material has been manufactured, sampled, tested, and inspected in accordance with this spec(API5L) and has been found to meet the requirements. These pipes are also made in accordance with ISO 9001:2008/API Q1 and JSW Steel Quality requirements. I/We certify the above to be correct as obtained in the records of the company. The processing, product conformance verification, and API Monogram application were performed by an authorized API licence holder.

Bhavin Patel
QA ENGINEER



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Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37465

Sample No.: K26080136

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37465

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Type	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Ti	Al	N	V	B	Nb	Ca	Zr	CE	PCM	V+Nb+Ti
Min. Req.	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	0.0000	0.00	0.0000	0.000	0.00	0.00	0.00
Max. Req.	0.12	1.60	0.025	0.015	0.45	0.50	0.50	0.50	0.50	0.000	0.000	0.000	0.00	0.0010	0.00	0.0000	0.000	0.43	0.25	0.15
Ladle	0.08	1.63	0.013	0.002	0.27	0.04	0.01	0.03	0.00	0.013	0.038	0.003	0.06	0.0001	0.07	0.0020	0.000	0.37	0.18	0.13
Product1	0.08	1.62	0.008	0.005	0.23	0.01	0.00	0.02	0.00	0.012	0.035	0.005	0.05	0.0000	0.06	0.0020	0.000	0.36	0.17	0.11
Product2	0.09	1.62	0.009	0.006	0.24	0.01	0.00	0.02	0.00	0.012	0.032	0.006	0.05	0.0000	0.06	0.0020	0.000	0.37	0.19	0.11

Mechanical Testing

N/O/L	Specimen Type	Width/Dia (inch)	Thick (inch)	Yield (PSI)	Tensile (PSI)	Elong (%)	Y/T Ratio	Remarks
1T180	ROUND	0.25	0.500	69900	83800	20	0.83	
1W	RECT	1.53	0.501		93300			BROKEN FROM BASE METAL

Guided Bend

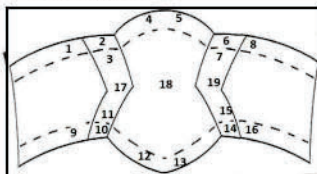
N/O/L	Root	Face
2W	OK	OK

Hydrostatic Test

TEST PRESS. PSI	HOLDING TIME (sec)
2070	20

Hardness Tests

Orientation: 1W



(HV10 - Scale)

MACRO OK

1: 186 8: 183 15: 201
2: 197 9: 186 16: 199
3: 198 10: 179 17: 191
4: 212 11: 181 18: 218
5: 218 12: 214 19: 194
6: 202 13: 216
7: 199 14: 194

DWTT Tests

Shear

Orien tation	Temp	1 (%)	2 (%)	Avg (%)
2T90	0 F	95	90	93

PRESSED NOTCH

DWTT for Information Only



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Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37465

Sample No.: K26080136

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37465

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

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				Charpy Impact Test								
N/O/L	Spec Size	Temp	Acc. Criteria (Avg/Min)	Ft lb1	Ft lb2	Ft lb3	Ft lb avg	Shear Acc. Criteria (Avg/Min)	Shear1 (%)	Shear2 (%)	Shear3 (%)	Shear Avg (%)
3T90	0.394x0.394 in	-20 F	40/30	147	155	150	151	85/-	90	90	90	90
		Full Size Values:			147	155	150		151	90	90	90
3W	0.394x0.394 in	-20 F	27/20	71	74	76	74	-				
		Full Size Values:			71	74	76		74			
3HAZ	0.394x0.394 in	-20 F	27/20	114	118	115	116	-				
		Full Size Values:			114	118	115		116			

Fracture Toughness Criteria: Charpy tests were performed on a 240ft-lbs Satec Charpy pendulum with 8mm striker. Values higher than 192 ft-lbs. exceed 80% of capacity and are considered approximate in accordance with ASTM E23.

Pipes Certified For This HEAT

K26076236 K26076309 K26078352 K26078409 K26078425 K26078476 K26078484 K26078492 K26079855 K26079863
K26079871 K26079928 K26079936 K26080136 K26080144 K26080152

The material has been manufactured, sampled, tested, and inspected in accordance with this spec(API5L) and has been found to meet the requirements. These pipes are also made in accordance with ISO 9001:2008/API Q1 and JSW Steel Quality requirements. I/We certify the above to be correct as obtained in the records of the company. The processing, product conformance verification, and API Monogram application were performed by an authorized API licence holder.

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Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37473

Sample No.: J26070841

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37473

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Type	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Ti	Al	N	V	B	Nb	Ca	Zr	CE	PCM	V+Nb+Ti
Min. Req.	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	0.0000	0.00	0.0000	0.000	0.00	0.00	0.00
Max. Req.	0.12	1.60	0.025	0.015	0.45	0.50	0.50	0.50	0.50	0.000	0.000	0.000	0.00	0.0010	0.00	0.0000	0.000	0.43	0.25	0.15
Ladle	0.08	1.64	0.013	0.001	0.25	0.03	0.01	0.02	0.00	0.012	0.036	0.005	0.05	0.0001	0.07	0.0020	0.000	0.37	0.18	0.13
Product1	0.08	1.61	0.010	0.006	0.25	0.03	0.00	0.03	0.00	0.013	0.022	0.007	0.05	0.0000	0.06	0.0010	0.000	0.37	0.18	0.12
Product2	0.08	1.60	0.010	0.007	0.25	0.03	0.00	0.03	0.00	0.013	0.022	0.009	0.05	0.0000	0.06	0.0012	0.000	0.36	0.18	0.12

Mechanical Testing

N/O/L	Specimen Type	Width/Dia (inch)	Thick (inch)	Yield (PSI)	Tensile (PSI)	Elong (%)	Y/T Ratio	Remarks
1T180	ROUND	0.25	0.500	75400	87300	21	0.86	
1W	RECT	1.54	0.508		92100			BROKEN FROM BASE METAL

Guided Bend

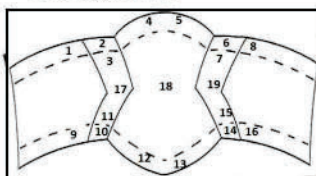
N/O/L	Root	Face
2W	OK	OK

Hydrostatic Test

TEST PRESS. PSI	HOLDING TIME (sec)
2070	20

Hardness Tests

Orientation: 1W



(HV10 - Scale)

MACRO OK

1: 187 8: 191 15: 195
2: 202 9: 198 16: 189
3: 206 10: 193 17: 205
4: 219 11: 199 18: 219
5: 222 12: 222 19: 187
6: 199 13: 216
7: 200 14: 191

DWTT Tests

Shear

Orien tation	Temp	1 (%)	2 (%)	Avg (%)
2T90	0 F	90	95	93

PRESSED NOTCH

DWTT for Information Only



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Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37473

Sample No.: J26070841

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37473

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

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THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Charpy Impact Test													
N/O/L	Spec Size	Temp	Acc. Criteria (Avg/Min)	Ft lb1	Ft lb2	Ft lb3	Ft lb avg	Shear Acc. Criteria (Avg/Min)	Shear1 (%)	Shear2 (%)	Shear3 (%)	Shear Avg (%)	
3T90	0.394x0.394 in	-20 F	40/30	184	193	189	189	85/-	95	95	95	95	
			Full Size Values:	184	193	189	189		95	95	95	95	
3W	0.394x0.394 in	-20 F	27/20	115	121	118	118	-					
			Full Size Values:	115	121	118	118						
3HAZ	0.394x0.394 in	-20 F	27/20	211	203	207	207	-					
			Full Size Values:	211	203	207	207						

Fracture Toughness Criteria: Charpy tests were performed on a 240ft-lbs Satec Charpy pendulum with 8mm striker. Values higher than 192 ft-lbs. exceed 80% of capacity and are considered approximate in accordance with ASTM E23.

Pipes Certified For This HEAT

J26070572	J26070581	J26070841	J26071161	J26071171	J26071196	J26071201	J26071374	J26071552
J26071595	J26071811	J26071846	J26071854	K26072745	K26072885	K26072915	K26072923	K26073253
K26073555	K26073768	K26074012	K26074161	K26075434	K26077381	K26077437	K26077471	K26077488
K26078638	K26078905	K26079537	K26079553	K26079561	K26079571	K26079588		K26079601
K26079715	K26079723	K26079741						K26079626

The material has been manufactured, sampled, tested, and inspected in accordance with this spec(API5L) and has been found to meet the requirements. These pipes are also made in accordance with ISO 9001:2008/API Q1 and JSW Steel Quality requirements. I/We certify the above to be correct as obtained in the records of the company. The processing, product conformance verification, and API Monogram application were performed by an authorized API licence holder.

Bhavin Patel
QA ENGINEER



JSW STEEL (USA) INC.
5200 E. McKinney Rd
Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37474

Sample No.: J26071293

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37474

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Type	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Ti	Al	N	V	B	Nb	Ca	Zr	CE	PCM	V+Nb+Ti
Min. Req.	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	0.0000	0.00	0.0000	0.000	0.00	0.00	0.00
Max. Req.	0.12	1.60	0.025	0.015	0.45	0.50	0.50	0.50	0.50	0.000	0.000	0.000	0.00	0.0010	0.00	0.0000	0.000	0.43	0.25	0.15
Ladle	0.08	1.62	0.012	0.002	0.25	0.03	0.01	0.02	0.00	0.013	0.037	0.004	0.06	0.0001	0.06	0.0020	0.000	0.37	0.18	0.13
Product1	0.07	1.61	0.006	0.004	0.28	0.03	0.00	0.02	0.00	0.011	0.032	0.003	0.05	0.0000	0.06	0.0020	0.000	0.35	0.17	0.12
Product2	0.06	1.55	0.012	0.002	0.22	0.02	0.00	0.03	0.00	0.006	0.020	0.005	0.06	0.0000	0.07	0.0014	0.000	0.34	0.15	0.14

Mechanical Testing

N/O/L	Specimen Type	Width/Dia (inch)	Thick (inch)	Yield (PSI)	Tensile (PSI)	Elong (%)	Y/T Ratio	Remarks
1T180	ROUND	0.25	0.500	73700	84600	19	0.87	
1W	RECT	1.55	0.515		93700			BROKEN FROM BASE METAL

Guided Bend

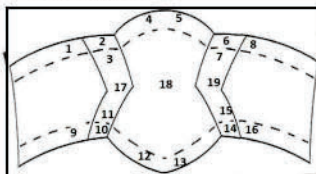
N/O/L	Root	Face
2W	OK	OK

Hydrostatic Test

TEST PRESS. PSI	HOLDING TIME (sec)
2070	20

Hardness Tests

Orientation: 1W



(HV10 - Scale)

MACRO OK

1: 194 8: 207 15: 183
2: 207 9: 189 16: 204
3: 203 10: 202 17: 201
4: 219 11: 207 18: 221
5: 229 12: 216 19: 196
6: 206 13: 218
7: 205 14: 197

DWTT Tests

Shear

Orien tation	Temp	1 (%)	2 (%)	Avg (%)
2T90	0 F	95	90	93

PRESSED NOTCH

DWTT for Information Only



JSW STEEL (USA) INC.
5200 E. McKinney Rd
Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37474

Sample No.: J26071293

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37474

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Charpy Impact Test													
N/O/L	Spec Size	Temp	Acc. Criteria (Avg/Min)	Ft lb1	Ft lb2	Ft lb3	Ft lb avg	Shear Acc. Criteria (Avg/Min)	Shear1 (%)	Shear2 (%)	Shear3 (%)	Shear Avg (%)	
3T90	0.394x0.394 in	-20 F	40/30	187	181	184	184	85/-	95	95	95	95	
		Full Size Values:		187	181	184	184		95	95	95	95	
3W	0.394x0.394 in	-20 F	27/20	118	122	119	120	-					
		Full Size Values:		118	122	119	120						
3HAZ	0.394x0.394 in	-20 F	27/20	195	190	199	195	-					
		Full Size Values:		195	190	199	195						

Fracture Toughness Criteria: Charpy tests were performed on a 240ft-lbs Satec Charpy pendulum with 8mm striker. Values higher than 192 ft-lbs. exceed 80% of capacity and are considered approximate in accordance with ASTM E23.

Pipes Certified For This HEAT

J26070955	J26071021	J26071081	J26071137	J26071145	J26071218	J26071242	J26071269	J26071293	J26071307
J26071481	J26071961	J26071994	J26072028		K26072941	K26072991	K26073008	K26073016	K26073024
K26073032	K26073041	K26073075	K26073083	K26073172	K26073181	K26073199	K26073202	K26073211	K26073441
K26073776	K26073806	K26073814	K26073822	K26073831	K26073849	K26073857	K26073997	K26077364	K26077551
K26077577	K26079464	K26079472							

The material has been manufactured, sampled, tested, and inspected in accordance with this spec(API5L) and has been found to meet the requirements. These pipes are also made in accordance with ISO 9001:2008/API Q1 and JSW Steel Quality requirements. I/We certify the above to be correct as obtained in the records of the company. The processing, product conformance verification, and API Monogram application were performed by an authorized API licence holder.

Bhavin Patel

QA ENGINEER



JSW STEEL (USA) INC.
5200 E. McKinney Rd
Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37475

Sample No.: K26077461

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37475

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Type	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Ti	Al	N	V	B	Nb	Ca	Zr	CE	PCM	V+Nb+Ti
Min. Req.	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	0.0000	0.00	0.0000	0.000	0.00	0.00	0.00
Max. Req.	0.12	1.60	0.025	0.015	0.45	0.50	0.50	0.50	0.50	0.000	0.000	0.000	0.00	0.0010	0.00	0.0000	0.000	0.43	0.25	0.15
Ladle	0.09	1.64	0.010	0.001	0.24	0.03	0.01	0.03	0.00	0.012	0.027	0.003	0.06	0.0001	0.07	0.0020	0.000	0.38	0.19	0.13
Product1	0.08	1.60	0.011	0.005	0.24	0.03	0.00	0.03	0.00	0.012	0.023	0.004	0.05	0.0000	0.06	0.0010	0.000	0.36	0.18	0.11
Product2	0.08	1.63	0.006	0.006	0.25	0.03	0.01	0.02	0.00	0.011	0.027	0.005	0.05	0.0000	0.06	0.0016	0.000	0.37	0.18	0.11

Mechanical Testing

N/O/L	Specimen Type	Width/Dia (inch)	Thick (inch)	Yield (PSI)	Tensile (PSI)	Elong (%)	Y/T Ratio	Remarks
1T180	ROUND	0.25	0.500	76300	89700	21	0.85	
1W	RECT	1.52	0.513		91800			BROKEN FROM BASE METAL

Guided Bend

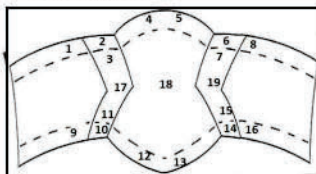
N/O/L	Root	Face
2W	OK	OK

Hydrostatic Test

TEST PRESS. PSI	HOLDING TIME (sec)
2070	20

Hardness Tests

Orientation: 1W



(HV10 - Scale)

MACRO OK

1: 198 8: 194 15: 175
2: 185 9: 192 16: 183
3: 190 10: 183 17: 192
4: 212 11: 185 18: 222
5: 218 12: 224 19: 181
6: 194 13: 229
7: 180 14: 187

DWTT Tests

Shear

Orien tation	Temp	1 (%)	2 (%)	Avg (%)
2T90	0 F	95	90	93

PRESSED NOTCH

DWTT for Information Only



JSW STEEL (USA) INC.
5200 E. McKinney Rd
Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37475

Sample No.: K26077461

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37475

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

				Charpy Impact Test								
N/O/L	Spec Size	Temp	Acc. Criteria (Avg/Min)	Ft lb1	Ft lb2	Ft lb3	Ft lb avg	Shear Acc. Criteria (Avg/Min)	Shear1 (%)	Shear2 (%)	Shear3 (%)	Shear Avg (%)
3T90	0.394x0.394 in	-20 F	40/30	190	196	191	192	85/-	95	95	95	95
		Full Size Values:			190	196	191	192	95	95	95	95
3W	0.394x0.394 in	-20 F	27/20	112	117	114	114	-				
		Full Size Values:			112	117	114	114				
3HAZ	0.394x0.394 in	-20 F	27/20	201	198	203	201	-				
		Full Size Values:			201	198	203	201				

Fracture Toughness Criteria: Charpy tests were performed on a 240ft-lbs Satec Charpy pendulum with 8mm striker. Values higher than 192 ft-lbs. exceed 80% of capacity and are considered approximate in accordance with ASTM E23.

Pipes Certified For This HEAT

K26074047 K26074055 K26077453 K26077461 K26077496 K26077593 K26078913 K26078921 K26078948 K26078964
K26079171 K26079359 K26079383 K26079391 K26079413 K26079618

The material has been manufactured, sampled, tested, and inspected in accordance with this spec(API5L) and has been found to meet the requirements. These pipes are also made in accordance with ISO 9001:2008/API Q1 and JSW Steel Quality requirements. I/We certify the above to be correct as obtained in the records of the company. The processing, product conformance verification, and API Monogram application were performed by an authorized API licence holder.

Bhavin Patel
QA ENGINEER



JSW STEEL (USA) INC.
5200 E. McKinney Rd
Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37476

Sample No.: K26077429

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37476

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Type	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Ti	Al	N	V	B	Nb	Ca	Zr	CE	PCM	V+Ni+Ti
Min. Req.	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	0.0000	0.00	0.0000	0.000	0.00	0.00	0.00
Max. Req.	0.12	1.60	0.025	0.015	0.45	0.50	0.50	0.50	0.50	0.000	0.000	0.000	0.00	0.0010	0.00	0.0000	0.000	0.43	0.25	0.15
Ladle	0.08	1.64	0.011	0.001	0.24	0.03	0.01	0.02	0.00	0.011	0.034	0.004	0.05	0.0001	0.06	0.0020	0.000	0.37	0.18	0.13
Product1	0.08	1.60	0.008	0.007	0.25	0.03	0.00	0.02	0.00	0.012	0.028	0.007	0.05	0.0000	0.05	0.0000	0.000	0.36	0.18	0.11
Product2	0.09	1.58	0.011	0.001	0.23	0.01	0.00	0.02	0.00	0.008	0.032	0.005	0.06	0.0000	0.07	0.0000	0.000	0.37	0.18	0.14

Mechanical Testing

N/O/L	Specimen Type	Width/Dia (inch)	Thick (inch)	Yield (PSI)	Tensile (PSI)	Elong (%)	Y/T Ratio	Remarks
1T180	ROUND	0.26	0.500	71800	83800	20	0.86	
1W	RECT	1.55	0.513		92700			BROKEN FROM BASE METAL

Guided Bend

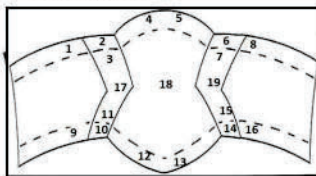
N/O/L	Root	Face
2W	OK	OK

Hydrostatic Test

TEST PRESS. PSI	HOLDING TIME (sec)
2070	20

Hardness Tests

Orientation: 1W



(HV10 - Scale)

MACRO OK

1: 195 8: 196 15: 179
2: 200 9: 200 16: 195
3: 193 10: 191 17: 198
4: 221 11: 198 18: 222
5: 218 12: 231 19: 182
6: 184 13: 236
7: 193 14: 182

DWTT Tests

Shear

Orien tation	Temp	1 (%)	2 (%)	Avg (%)
2T90	0 F	90	95	93

PRESSED NOTCH

DWTT for Information Only



JSW STEEL (USA) INC.
5200 E. McKinney Rd
Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37476

Sample No.: K26077429

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37476

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Charpy Impact Test													
N/O/L	Spec Size	Temp	Acc. Criteria (Avg/Min)	Ft lb1	Ft lb2	Ft lb3	Ft lb avg	Shear Acc. Criteria (Avg/Min)	Shear1 (%)	Shear2 (%)	Shear3 (%)	Shear Avg (%)	
3T90	0.394x0.394 in	-20 F	40/30	189	183	194	189	85/-	95	95	95	95	
			Full Size Values:	189	183	194	189		95	95	95	95	
3W	0.394x0.394 in	-20 F	27/20	118	123	115	119	-					
			Full Size Values:	118	123	115	119						
3HAZ	0.394x0.394 in	-20 F	27/20	199	195	201	198	-					
			Full Size Values:	199	195	201	198						

Fracture Toughness Criteria: Charpy tests were performed on a 240ft-lbs Satec Charpy pendulum with 8mm striker. Values higher than 192 ft-lbs. exceed 80% of capacity and are considered approximate in accordance with ASTM E23.

Pipes Certified For This HEAT

K26073164 K26074021 K26076325 K26076384 K26076406 K26076414 K26077224 K26077429 K26077755 K26077763
K26077798 K26077844 K26077941 K26078931 K26078956 K26078972 K26078981

The material has been manufactured, sampled, tested, and inspected in accordance with this spec(API5L) and has been found to meet the requirements. These pipes are also made in accordance with ISO 9001:2008/API Q1 and JSW Steel Quality requirements. I/We certify the above to be correct as obtained in the records of the company. The processing, product conformance verification, and API Monogram application were performed by an authorized API licence holder.

Bhavin Patel

QA ENGINEER



JSW STEEL (USA) INC.
5200 E. McKinney Rd
Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37477

Sample No.: J26072011

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37477

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Type	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Ti	Al	N	V	B	Nb	Ca	Zr	CE	PCM	V+Nb+Ti
Min. Req.	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	0.0000	0.00	0.0000	0.000	0.00	0.00	0.00
Max. Req.	0.12	1.60	0.025	0.015	0.45	0.50	0.50	0.50	0.50	0.000	0.000	0.000	0.00	0.0010	0.00	0.0000	0.000	0.43	0.25	0.15
Ladle	0.08	1.60	0.012	0.001	0.24	0.06	0.01	0.02	0.00	0.013	0.038	0.003	0.05	0.0001	0.06	0.0020	0.000	0.37	0.18	0.13
Product1	0.09	1.58	0.011	0.007	0.25	0.04	0.01	0.03	0.00	0.013	0.031	0.004	0.05	0.0000	0.06	0.0020	0.000	0.37	0.19	0.12
Product2	0.07	1.59	0.011	0.001	0.22	0.01	0.00	0.02	0.00	0.008	0.022	0.005	0.07	0.0000	0.07	0.0014	0.000	0.35	0.17	0.14

Mechanical Testing

N/O/L	Specimen Type	Width/Dia (inch)	Thick (inch)	Yield (PSI)	Tensile (PSI)	Elong (%)	Y/T Ratio	Remarks
1T180	ROUND	0.25	0.500	76300	86600	18	0.88	
1W	RECT	1.61	0.510		96400			BROKEN FROM BASE METAL

Guided Bend

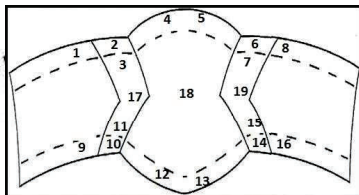
N/O/L	Root	Face
2W	OK	OK

Hydrostatic Test

TEST PRESS. PSI	HOLDING TIME (sec)
2070	20

Hardness Tests

Orientation: 1W



(HV10 - Scale)

1: 198 8: 195 15: 198
2: 187 9: 196 16: 197
3: 193 10: 177 17: 175
4: 218 11: 179 18: 216
5: 216 12: 226 19: 180
6: 188 13: 214
7: 177 14: 205

DWTT Tests

Shear

Orien tation	Temp	1 (%)	2 (%)	Avg (%)
2T90	0 F	95	95	95

PRESSED NOTCH

MACRO OK

DWTT for Information Only



JSW STEEL (USA) INC.
5200 E. McKinney Rd
Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37477

Sample No.: J26072011

PO Number: 324396 **PO Date:** 01/08/26 **JSW #:** JPM37985 **Date:** 06/26/26
Diameter (in): 30 **Wall (in):** 0.500 **Grade:** X65M_PSL2 **Heat No:** S37477
Plate Source: JSW Steel (USA) Inc., USA **Slab Source:** ARCELOR MITTAL, SAO GONCALO, BRAZIL
Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Charpy Impact Test												
N/O/L	Spec Size	Temp	Acc. Criteria (Avg/Min)	Ft lb1	Ft lb2	Ft lb3	Ft lb avg	Shear Acc. Criteria (Avg/Min)	Shear1 (%)	Shear2 (%)	Shear3 (%)	Shear Avg (%)
3T90	0.394x0.394 in	-20 F	40/30	193	190	196	193	85/-	95	95	95	95
			Full Size Values:	193	190	196	193		95	95	95	95
3W	0.394x0.394 in	-20 F	27/20	121	125	119	122	-				
			Full Size Values:	121	125	119	122					
3HAZ	0.394x0.394 in	-20 F	27/20	209	214	211	211	-				
			Full Size Values:	209	214	211	211					

Fracture Toughness Criteria: Charpy tests were performed on a 240ft-lbs Satec Charpy pendulum with 8mm striker. Values higher than 192 ft-lbs. exceed 80% of capacity and are considered approximate in accordance with ASTM E23.

Pipes Certified For This HEAT

J26071005	J26071111	J26072001	J26072011	J26072087	K26072451	K26072461	K26072486	K26072508	K26072524
	K26077331	K26077607	K26077852	K26077951	K26077968	K26078662	K26078999	K26079006	K26079014
K26079031		K26079081	K26079091						

The material has been manufactured, sampled, tested, and inspected in accordance with this spec(API5L) and has been found to meet the requirements. These pipes are also made in accordance with ISO 9001:2008/API Q1 and JSW Steel Quality requirements. I/We certify the above to be correct as obtained in the records of the company. The processing, product conformance verification, and API Monogram application were performed by an authorized API licence holder.

Bhavin Patel
QA ENGINEER



JSW STEEL (USA) INC.
5200 E. McKinney Rd
Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37483

Sample No.: J26070769

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37483

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Type	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Ti	Al	N	V	B	Nb	Ca	Zr	CE	PCM	V+Nb+Ti
Min. Req.	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	0.0000	0.00	0.0000	0.000	0.00	0.00	0.00
Max. Req.	0.12	1.60	0.025	0.015	0.45	0.50	0.50	0.50	0.50	0.000	0.000	0.000	0.00	0.0010	0.00	0.0000	0.000	0.43	0.25	0.15
Ladle	0.08	1.62	0.012	0.001	0.25	0.04	0.01	0.02	0.00	0.013	0.037	0.003	0.05	0.0001	0.07	0.0020	0.000	0.37	0.18	0.13
Product1	0.07	1.63	0.012	0.004	0.26	0.03	0.00	0.03	0.00	0.012	0.037	0.002	0.05	0.0000	0.06	0.0020	0.000	0.36	0.17	0.12
Product2	0.09	1.60	0.013	0.004	0.27	0.03	0.00	0.03	0.00	0.013	0.037	0.002	0.05	0.0000	0.06	0.0020	0.000	0.37	0.19	0.13

Mechanical Testing

N/O/L	Specimen Type	Width/Dia (inch)	Thick (inch)	Yield (PSI)	Tensile (PSI)	Elong (%)	Y/T Ratio	Remarks
1T180	ROUND	0.25	0.500	77400	87900	20	0.88	
1W	RECT	1.54	0.518		95200			BROKEN FROM BASE METAL

Guided Bend

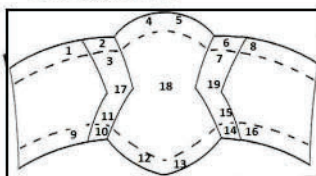
N/O/L	Root	Face
2W	OK	OK

Hydrostatic Test

TEST PRESS. PSI	HOLDING TIME (sec)
2070	20

Hardness Tests

Orientation: 1W



(HV10 - Scale)

MACRO OK

1: 194 8: 205 15: 183
2: 203 9: 192 16: 199
3: 205 10: 201 17: 202
4: 224 11: 204 18: 220
5: 220 12: 221 19: 187
6: 192 13: 222
7: 200 14: 189

DWTT Tests

Shear

Orien tation	Temp	1 (%)	2 (%)	Avg (%)
2T90	0 F	95	90	93

PRESSED NOTCH

DWTT for Information Only



JSW STEEL (USA) INC.
5200 E. McKinney Rd
Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37483

Sample No.: J26070769

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37483

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Charpy Impact Test												
N/O/L	Spec Size	Temp	Acc. Criteria (Avg/Min)	Ft lb1	Ft lb2	Ft lb3	Ft lb avg	Shear Acc. Criteria (Avg/Min)	Shear1 (%)	Shear2 (%)	Shear3 (%)	Shear Avg (%)
3T90	0.394x0.394 in	-20 F	40/30	204	213	210	209	85/-	100	100	100	100
			Full Size Values:	204	213	210	209		100	100	100	100
3W	0.394x0.394 in	-20 F	27/20	130	132	135	132	-				
			Full Size Values:	130	132	135	132					
3HAZ	0.394x0.394 in	-20 F	27/20	200	206	197	201	-				
			Full Size Values:	200	206	197	201					

Fracture Toughness Criteria: Charpy tests were performed on a 240ft-lbs Satec Charpy pendulum with 8mm striker. Values higher than 192 ft-lbs. exceed 80% of capacity and are considered approximate in accordance with ASTM E23.

Pipes Certified For This HEAT

J26070262	J26070327	J26070696	J26070701	J26070726	J26070769	J26070921	J26071072	J26071412	J26071536
J26071617	J26071633	J26071641	J26071651	J26071668	J26071684	J26071692	J26071731	K26073891	K26074209
K26074225	K26076678	K26077771	K26078808	K26078816		K26078841	K26079227		

The material has been manufactured, sampled, tested, and inspected in accordance with this spec(API5L) and has been found to meet the requirements. These pipes are also made in accordance with ISO 9001:2008/API Q1 and JSW Steel Quality requirements. I/We certify the above to be correct as obtained in the records of the company. The processing, product conformance verification, and API Monogram application were performed by an authorized API licence holder.

Bhavin Patel
QA ENGINEER



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Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37507

Sample No.: J26070874

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37507

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches
inside and outside (Longitudinal and Transverse)

API 5L 46TH Ed APRIL 2018

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Type	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Ti	Al	N	V	B	Nb	Ca	Zr	CE	PCM	V+Nb+Ti
Min. Req.	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.00	0.0000	0.00	0.0000	0.000	0.00	0.00	0.00
Max. Req.	0.12	1.60	0.025	0.015	0.45	0.50	0.50	0.50	0.50	0.000	0.000	0.000	0.00	0.0010	0.00	0.0000	0.000	0.43	0.25	0.15
Ladle	0.08	1.61	0.013	0.001	0.24	0.03	0.01	0.03	0.00	0.014	0.026	0.004	0.05	0.0001	0.06	0.0010	0.000	0.37	0.18	0.13
Product1	0.08	1.59	0.005	0.007	0.24	0.03	0.00	0.02	0.00	0.011	0.032	0.003	0.05	0.0000	0.06	0.0020	0.000	0.36	0.17	0.11
Product2	0.08	1.64	0.006	0.003	0.23	0.02	0.00	0.01	0.00	0.011	0.031	0.002	0.05	0.0000	0.06	0.0020	0.000	0.37	0.18	0.12

Mechanical Testing

N/O/L	Specimen Type	Width/Dia (inch)	Thick (inch)	Yield (PSI)	Tensile (PSI)	Elong (%)	Y/T Ratio	Remarks
1T180	ROUND	0.25	0.500	75500	88100	19	0.86	
1W	RECT	1.61	0.511		95300			BROKEN FROM BASE METAL

Guided Bend

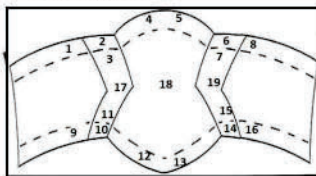
N/O/L	Root	Face
2W	OK	OK

Hydrostatic Test

TEST PRESS. PSI	HOLDING TIME (sec)
2070	20

Hardness Tests

Orientation: 1W



(HV10 - Scale)

MACRO OK

1: 193 8: 191 15: 194
2: 201 9: 200 16: 199
3: 209 10: 198 17: 201
4: 216 11: 195 18: 232
5: 218 12: 230 19: 193
6: 204 13: 218
7: 201 14: 202

DWTT Tests

Shear

Orien tation	Temp	1 (%)	2 (%)	Avg (%)
2T90	0 F	95	95	95

PRESSED NOTCH

DWTT for Information Only



JSW STEEL (USA) INC.
5200 E. McKinney Rd
Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.: JPM37985-1-S37507

Sample No.: J26070874

PO Number: 324396

PO Date: 01/08/26

JSW #: JPM37985

Date: 06/26/26

Diameter (in): 30

Wall (in): 0.500

Grade: X65M_PSL2

Heat No: S37507

Plate Source: JSW Steel (USA) Inc., USA

Slab Source: ARCELOR MITTAL, SAO GONCALO, BRAZIL

Comments: Hardness requirement as per NACE MR 0175

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL ROLLED

INSPECTION CERTIFICATE: 3.1 IN ACCORDANCE WITH EN 10204:2004.

API 5L 46TH Ed APRIL 2018

100% Weld seam inspection by ultrasonic testing method; Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

PIPE END UST: 1/2T X 0.25" FBH(1" EACH END CIRCUMFERENCE)
END X-RAY: 8" (ASTM - B PENETRAMEETER)

Charpy Impact Test													
N/O/L	Spec Size	Temp	Acc. Criteria (Avg/Min)	Ft lb1	Ft lb2	Ft lb3	Ft lb avg	Shear Acc. Criteria (Avg/Min)	Shear1 (%)	Shear2 (%)	Shear3 (%)	Shear Avg (%)	
3T90	0.394x0.394 in	-20 F	40/30	204	212	206	207	85/-	100	100	100	100	
			Full Size Values:	204	212	206	207		100	100	100	100	
3W	0.394x0.394 in	-20 F	27/20	118	124	120	121	-					
			Full Size Values:	118	124	120	121						
3HAZ	0.394x0.394 in	-20 F	27/20	217	213	220	217	-					
			Full Size Values:	217	213	220	217						

Fracture Toughness Criteria: Charpy tests were performed on a 240ft-lbs Satec Charpy pendulum with 8mm striker. Values higher than 192 ft-lbs. exceed 80% of capacity and are considered approximate in accordance with ASTM E23.

Pipes Certified For This HEAT

J26070874 K26072702 K26075019 K26075663 K26075701 K26075744 K26076971 K26076988 K26077003 K26077011
K26077267 K26078182 K26078191 K26078212 K26078221 K26078239 K26078247 K26078255 K26078263 K26078271

The material has been manufactured, sampled, tested, and inspected in accordance with this spec(API5L) and has been found to meet the requirements. These pipes are also made in accordance with ISO 9001:2008/API Q1 and JSW Steel Quality requirements. I/We certify the above to be correct as obtained in the records of the company. The processing, product conformance verification, and API Monogram application were performed by an authorized API licence holder.

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QA ENGINEER