



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.: 7933JM-7456

Sample No.: L19138011

PO Number: 7933JM

PO Date: 03/19/19

JSW #: JPM12253

Date: 01/30/20

Diameter (in): 30

Wall (in): 0.875

Grade: X52M\_PSL2

Heat No: S27456

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

Slab Source: ARCELOR MITTAL, LAZARO GARDENAS, MEXICO

Comments: Meets "NACE MR0175" and "NACE MR0103" (Hardness Only)

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

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

**Customer**  
VASS PIPE AND STEEL  
PO BOX 583  
MINEOLA, NY 11501

**Ship To**  
VASS PIPE AND STEEL  
PO BOX 583  
MINEOLA, NY 11501

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000	0.000	0.00	0.00	
Max. Req.	0.22	1.40	0.025	0.015	0.45	0.500	0.500	0.500	0.500	0.000	0.000	0.000	0.000	0.0010	0.000	0.000	0.000	0.43	0.25	
Ladle	0.08	1.65	0.008	0.001	0.24	0.010	0.010	0.020	0.000	0.010	0.039	0.004	0.065	0.0000	0.085	0.004	0.000	0.36	0.18	0.14
Product1	0.08	1.60	0.009	0.000	0.24	0.010	0.010	0.010	0.000	0.008	0.035	0.004	0.057	0.0000	0.072	0.000	0.000	0.36	0.17	0.14
Product2	0.10	1.60	0.005	0.000	0.24	0.000	0.010	0.020	0.000	0.011	0.038	0.001	0.061	0.0000	0.067	0.000	0.000	0.36	0.17	0.14

## Mechanical Testing

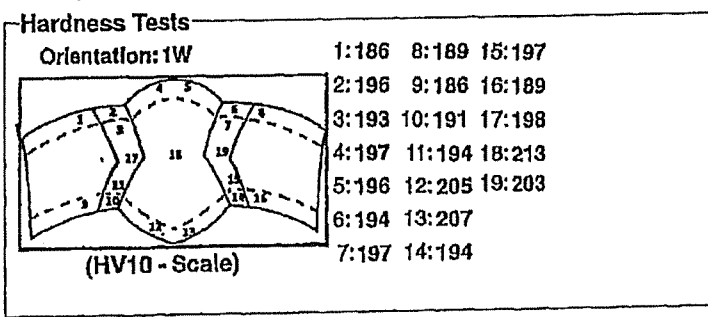
N/O/L	Specimen Type	Width/Dia (inch)	Thick (inch)	Yield (PSI)	Tensile (PSI)	Elong (%)	Y/T Ratio	Remarks
1T180	RECT	1.63	0.896	76710	89000	37	0.86	
1W	RECT	1.63	0.890		97600			BROKEN FROM BASE METAL

**Guided Bend**

N/O/L	Root	Face
2W	OK	OK

**Hydrostatic Test**

TEST PRESS. PSI	HOLDING TIME (sec)
3630	20



MACRO OK