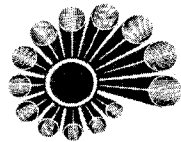


FLM-005-7



PROCARSA, S.A. DE C.V.

**CERTIFICADO DE CALIDAD  
DE PRUEBAS FISICAS-QUIMICAS**

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: ACEROS TEPOTZOTLAN, S.A. DE C.V.

NUMERO PTM-6744-2018

CUSTOMER:

NUMBER

PEDIDO CLIENTE / P.O. N/A

PEDIDO INTERNO / I.O.

FECHA

PARTIDA (S)

DATE MARZO 01, 2018

ITEMS N/A

TAMAÑO

ESPELOR DE PARED

GRADO :

PRESION HIDROSTATICA:

SIZE: N/A

WALL THICKNESS

N/A

GRADE :

N/A

HIDROSTATIC TEST: -----N/A-----

## PRUEBAS DE TENSION

## ANALISIS QUIMICO % EN PESO

## TENSILE TEST

## CHEMICAL ANALYSES PERCENT WEIGHT

PARTIDA ITEM	NUM.PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LE/UT Y.S/T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
1	3A-11 Lc	279394	64 190	79 019	35	0.81	0.065	0.90	0.011	0.004	0.037	0.002	0.003	0.046	0.029	0.029	0.0022	0.023	0.019	0.004	0.006	
2	1B-7 Lc	178951	58 825	77 550	35	0.76	0.072	0.84	0.015	0.004	0.035	0.002	0.002	0.042	0.043	0.047	0.0027	0.026	0.062	0.014	0.005	
3	4A-8 Lc	178951	67 900	81 986	30	0.83	0.072	0.84	0.015	0.004	0.035	0.002	0.002	0.042	0.043	0.047	0.0027	0.026	0.062	0.014	0.005	

PARTIDA ITEMS	DIMENSIONES SIZE	GRADO GRADE	PARTIDA ITEM	No. PEDIDO P.O.
1	8" X 6" X 0.500"	ASTM A500-B	207924-50	16410
2	8" X 6" X 0.250"	ASTM A500-B	207924-30	16410
3	7" X 7" X 0.250"	ASTM A500-B	207924-30	16410

CERTIFICAMOS QUE LA TUBERIA AQUÍ DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

ASTM A500

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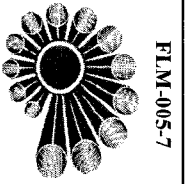
WE CERTIFY THE PIPE ABOVE MENTIONED ACCOMPLISH AND HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATIONS:

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ING. ALEJANDRO ABRACON CAZARES  
JEFE DE LABORATORIO METALURGICO  
METALLURGICAL LABORATORY CHIEF



FLM-005-7

PROCARSA, S.A. DE C.V.

**CERTIFICADO DE CALIDAD  
DE PRUEBAS FISICAS-QUIMICAS**

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: ACEROS TEPOTZOTLAN, S.A. DE C.V.

NUMERO PTM-6745-2018

CUSTOMER:

PEDIDO CLIENTE / P. O. N/A

PEDIDO INTERNO / I.O.

PARTIDA (S) N/A

ITEMS

PRESION HIDROSTATICA:

ANALISIS QUIMICO % EN PESO

CHEMICAL ANALYSES PERCENT WEIGHT

PERCENT WEIGHT

PERCENT WEIGHT

PERCENT WEIGHT

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TAMANO: N/A  
ESPEJOR DE PARED: N/A  
WALL THICKNESS: N/A

GRADO: N/A

PRESSION HIDROSTATICA: N/A  
ANALISIS QUIMICO % EN PESO: N/A

PRUEBAS DE TENSION  
TENSILE TEST

PARTIDA ITEM	NUM/PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LEBULT Y/FT'S	GRADO:	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq
1	3A-11 Lc	279394	64 190	79 019	35	0.81	C	0.90	0.011	0.004	0.037	0.002	0.003	0.046	0.029	0.029	0.0022	0.023	0.019	0.004	0.006	
2	1B-7 Lc	178951	58 825	77 550	35	0.76		0.84	0.015	0.004	0.035	0.002	0.002	0.042	0.043	0.047	0.0027	0.026	0.062	0.014	0.005	
3	1A-20 Lc	178952	63 272	71 326	35	0.89		0.88	0.014	0.004	0.013	0.003	0.001	0.041	0.019	0.030	0.0022	0.014	0.019	0.004	0.005	
4	4A-8 Lc	178951	67 900	81 986	30	0.83		0.84	0.015	0.004	0.035	0.002	0.002	0.042	0.043	0.047	0.0027	0.026	0.062	0.014	0.005	
							DIMENSIONES		GRADO		PARTIDA		PARTIDA		No. PEDIDO							
							SIZE		GRADE		ITEM		ITEM		P.O.							
							8" X 6" X 0.500"		ASTM A500-B		207924-50		207924-50		16410							
							8" X 6" X 0.250"		ASTM A500-B		207924-30		207924-30		16410							
							7" X 7" X 0.188"		ASTM A500-B		207924-20		207924-20		16410							
							7" X 7" X 0.250"		ASTM A500-B		207924-30		207924-30		16410							

CERTIFICAMOS QUE LA TUBERIA AQUÍ DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

WE CERTIFY THE PIPE ABOVE MENTIONED ACCOMPLISH AND HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATIONS:

ASTM A500

ING. ALEJANDRO ALARCON  
JEFE DE LABORATORIO METALURGICO  
METALLURGICAL LABORATORY CHIEF