

PLM-005-7

PROCARSA, S.A. DE C.V.



**CERTIFICADO DE INSPECCION
DE PRUEBAS MECANICAS Y ANALISIS QUIMICO**

INSPECTION CERTIFICATE OF MECHANICAL TESTS AND CHEMICAL ANALYSES

CLIENTE: PLESA ANAHUAC Y CIA S. S.A. DE C.V.

CUSTOMER:

PEDIDO / CLIENTE / P.O.

PARTIDA (S)

FECHA / DATE: SEPTIEMBRE 10, 2018

NUMERO / NUMBER: PFM-0003-1-2018

DIAMETRO EXTERIOR: OUTSIDE DIAMETER:	ESPESOR DE PARED: WALL THICKNESS:	GRADO: GRADE:	ASTM A53-R	41 Kg/cm ²	580 PSI
REQUERIMIENTOS DE PRUEBAS DE TENSION / TENSILE TEST REQUIREMENTS	REQUERIMIENTOS DE ANALISIS QUIMICO % EN PESO / CHEMICAL ANALYSIS BY PERCENTAGE OF WEIGHT REQUIREMENTS	PRESION HIDROSTATICA: HYDROSTATIC TEST:			
LIMITE ELASTICO / YIELD STRENGTH	60000 PSI MIN.	35000 PSI MIN.	26 min.	0.300 max	0.400 max
ULTIMA TENSION / TENSILE STRENGTH	64 104	86 496	69 057	70 900	67 523
ULTIMA TENSION / TENSILE STRENGTH	73 007	50 814	54 449	53 881	

NO. PROBETA DISCUSSION	CD. LABA HEAT #	LIMITE ELASTICO YIELD STRENGTH (PSI)	ULTIMA TENSION TENSILE STRENGTH (PSI)	% ELONG. E	LENG. INCH.	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	CE (W)	CE (Pm)
7-10 Tc	272760	50 814	64 104	36	0.79	0.133	0.78	0.016	0.007	0.002	0.005	0.005	0.275	0.030	0.041	0.0023	0.030	0.020	0.003	0.0056		
Ts			86 496																			
169-16 Tc	290789	54 449	69 057	44	0.78	0.070	1.17	0.011	0.004	0.014	0.004	0.008	0.220	0.010	0.031	0.0015	0.030	0.030	0.008	0.0051		
Ts			70 900																			
255-17 Tc	290795	53 881	67 523	40	0.79	0.081	1.19	0.010	0.004	0.014	0.003	0.009	0.255	0.010	0.041	0.0030	0.010	0.020	0.009	0.0050		
Ts			73 007																			

CERTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION: ASTM A53

WE CERTIFY THAT THE ABOVE DESCRIBED PIPE HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATION, AND MEETS THE APPLICABLE REQUIREMENTS THEREIN

[Signature]
ING. ALEJANDRO ALARCON GAZARES,
JEFE DE LABORATORIO METALURGICO
METALLURGICAL LABORATORY CHIEF