



FLM-005-7

**PROCARSA, S.A. DE C.V.**

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

CLIENTE: PESA ANAHUAC Y GAS, S.A. DE C.V.  
 CUSTOMER:  
 PEDIDO CLIENTE / P.O. 1735  
 PEDIDO INTERNO / I.O. PARTIDA (S)  
 ITEMS JP-4-00 / JP-7-01 / USA-06-05

NUMERO PTM-7206-2008  
 FECHA AGOSTO 16, 2008  
 DATE

DIAMETRO: 24" ESPESOR DE PARED 0.500" GRADO: ASTM A53-B PRESION HIDROSTATICA: 62 Kg/cm<sup>2</sup> 880  
 WALL THICKNESS 0.500" GRADE: ASTM A53-B ANALISIS QUIMICO % EN PESO  
 TENSILE TEST CHEMICAL ANALYSES PERCENT WEIGHT

NUM. PROBEA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LEBLT YSTS	CHEMICAL ANALYSES PERCENT WEIGHT														
						C	Mn	P	S	Ch	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
14-6 TC TS	ZN1371	56 727	67 941	41	0.83	0.090	0.76	0.015	0.006	0.010	-	-	0.190	0.020	0.018	-	0.030	0.020	-	0.0020
23-3 TC TS	ZY2624	58 026	68 923	39	0.84	0.090	0.78	0.013	0.009	0.010	-	-	0.200	0.020	0.018	-	0.030	0.010	-	0.0020
42-4 TC TS	B506011	69 207	76 912	40	0.90	0.058	1.08	0.011	0.003	0.076	0.003	0.002	0.236	0.108	0.027	0.0018	0.050	0.050	0.012	0.0080
40-7 TC TS	B506012	65 803	80 162	39	0.89	0.054	1.08	0.010	0.003	0.073	0.002	0.002	0.242	0.133	0.029	0.003	0.040	0.050	0.013	0.0080
29-9 TC TS	B506013	62 511	74 798	40	0.84	0.054	1.11	0.011	0.004	0.078	0.003	0.002	0.230	0.144	0.027	0.001	0.050	0.070	0.032	0.0060
4-5 TC TS	B506018	54 299	80 006	37	0.80	0.061	1.11	0.011	0.003	0.025	0.003	0.002	0.204	0.175	0.029	0.001	0.030	0.060	0.015	0.0070
			70 187																	

CERTIFICAMOS QUE LA TUBERIA AQUI 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 A53-B-06

ING. FERNANDO OSSORIO PEREZ  
 GERENTE DE ASEGURAMIENTO DE CALIDAD  
 QUALITY ASSURANCE MANAGER