

PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD  
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE:	PESA ANAHUACIYAS S.A. DE C.V.	NUMERO:	PTM-61275-2005
CUSTOMER:		NUMBER:	
PEDIDO CLIENTE / P.O.:	13447	FECHA:	ABRIL 27, 2005
PEDIDO INTERNO / I.O.:		DATE:	
PARTIDA(S):			
ITEMS:	64618-60		

DIAMETRO: 10 3/4"  
WALL THICKNESS: 0.365"

ESPESOR DE PARED: 0.365"

GRADO: ASTM A53-B

PRESION HIDROSTATICA: 1430 PSI

HIDROSTATIC TEST: 101 kg/cm<sup>2</sup>

TENSILE TEST

CHEMICAL ANALYSIS PERCENT WEIGHT

NUM/PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LEAIT V.S/T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
14-11 TC	151658	55 607	69 281	34	0.80	0.174	1.10	0.020	0.006	0.001	0.005	0.004	0.200	0.040	0.040	0.0028	0.030	0.040	0.010	0.0051
3-10 TC	151659	55 277	72 696	35	0.80	0.175	1.11	0.013	0.006	0.001	0.004	0.004	0.180	0.020	0.042	0.0031	0.020	0.030	0.007	0.0053
16-8 TC	151660	54 210	69 164	33	0.78	0.156	1.07	0.017	0.006	0.001	0.005	0.003	0.180	0.030	0.036	0.0026	0.030	0.030	0.009	0.0047
7-14 TC	151661	53 862	72 543	35	0.75	0.172	1.09	0.019	0.005	0.001	0.003	0.003	0.180	0.030	0.040	0.0027	0.020	0.030	0.007	0.0041
18-11 TC	151704	52 667	73 813	36	0.75	0.168	1.07	0.014	0.007	0.001	0.002	0.003	0.180	0.030	0.042	0.0024	0.030	0.030	0.007	0.0037
23-8 TC	151705	52 579	70 418	36	0.75	0.180	1.09	0.015	0.003	0.001	0.003	0.003	0.180	0.010	0.032	0.0024	0.020	0.030	0.006	0.0033
30-7 TC	151706	54 597	74 999	35	0.80	0.167	1.07	0.015	0.007	0.001	0.003	0.004	0.200	0.010	0.039	0.0022	0.020	0.030	0.006	0.0040

CERTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO ABRICADA, 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 -02

ING. FERNANDO OSORIO-REBEZ  
GERENTE DE ASEGURAMIENTO DE CALIDAD