



PLM-005-7

PROCARSA, S.A. DE C.V.

**CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS**
QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CUSTOMER:	TUCOTA	NUMERO NUMBER	PTM-53257-2002
PEDIDO CLIENTE/P.O.	9577	FECHA DATE	OCTUBRE 08, 2002
PARTIDA (S)	32945-30		
PEDIDO INTERNO/LID.			
ITEMS			

DIAMETRO : 12 3/4"	ESPESSOR DE PARED WALL THICKNESS	GRADO : 0.250"	ASTM A51-B	PRESION HIDROSTATICA: 58 Kg/cm ² 820 PSI
PRUEBAS DE TENSION TENSILE TEST				

NONPROBETA DESCRIPTION	COLOADA HEAT	LIMITE ELASTICO YIELD STRENGTH (F.S.)	ULTIMA TENSION TENSILE STRENGTH (F.S.)	% ELONG. %	LOUT YIELD STRENGTH	C	Mn	P	S	Cb	V	Ti	SI	Cu	Al	Ca	Cr	Ni	Mo	N	Ceq	
3-11 Tc	120145	50 772	66 806	41	0.76	0.142	0.93	0.017	0.005	-	-	-	0.153	0.018	0.042	0.0032	0.023	0.028	-	-	-	
10-12 Tc	121077	53 549	71 699	38	0.81	0.150	0.81	0.019	0.008	-	-	-	0.150	0.013	0.030	0.0004	0.026	0.026	-	-	-	
25-8 Tc	121106	49 852	73 213	40	0.76	0.152	0.84	0.017	0.006	-	-	-	0.116	0.011	0.027	0.0015	0.021	0.023	-	-	-	
34-16 Tc	121109	52 759	67 825	37	0.81	0.126	0.84	0.020	0.009	-	-	-	0.146	0.013	0.044	0.0006	0.019	0.025	-	-	-	
8-14 Tc	221071	51 295	70 873	40	0.82	0.146	0.79	0.019	0.009	-	-	-	0.145	0.016	0.042	0.0004	0.033	0.050	-	-	-	
19-6 Tc	221072	53 689	62 343	35	0.84	0.137	0.81	0.017	0.010	-	-	-	0.159	0.021	0.043	0.0003	0.025	0.029	-	-	-	
12-14 Tc	221073	52 861	65 812	40	0.80	0.145	0.81	0.019	0.008	-	-	-	0.142	0.013	0.030	0.0004	0.026	0.028	-	-	-	
			73 435																			

CERTIFICAMOS QUE LA TUBERIA ACUÍ 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


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