



FLM-005-7

PROCARSA, S.A. DE C.V.
CERTIFI DO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICAL-CHEMICAL

LIB. 011	TUCOTA	NUMERO	PTM-ST1182-2002
CUSTOMER:		NUMBER	
PELIDO CUENTE / P.O.	8075	FECHA	FEBRERO 09, 2002
PELIDO INTERNO / I.O.		DATE	
PARTIDA (S)	30778-10 / 31540-10		

DIAMETRO: 12 3/4" ESPESOR DE PARED: 0.250" GRADO: ASTM A53-B PRESSION HIDROSTATICA: 58 Kg/cm² 820 PSI

PRUEBAS DE TENSION

ANALISIS QUIMICO % EN PESO

NUMERO DE TUBERIA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (PSI)	ULTIMA TENSION TENSILE STRENGTH (PSI)	% ELONG. 2"	LEGIT VGF'S	CHEMICAL ANALYSIS PERCENT WEIGHT													
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo
7-7 TC TS	118512	51 828	66 116 69 700	34	0.78	0.165	1.11	0.015	0.007	0.0030	0.0040	0.218	0.021	0.045	0.0026	0.021	0.025	0.0140	0.0062
12-3 TC TS	118513	48 342	66 022 67 119	35	0.73	0.165	1.12	0.016	0.006	0.0030	0.0030	0.183	0.020	0.034	0.0022	0.019	0.021	0.0140	0.0049
15-1 TC TS	120159	52 003	68 587 78 582	33	0.76	0.179	1.15	0.016	0.008	0.0030	0.0040	0.197	0.014	0.037	0.0021	0.025	0.024	0.0160	0.0061

CERTIFICAMOS QUE LA TUBERIA ACUI 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