



Ave. Guerrero No. 2723, Col. San Martín, Monterrey, N.L., México
 C.P. 64460
 TEL: 81-814444 FAX: 81-814444

CERTIFICADO DE TUBERIA

PIPE CERTIFICATE

040374

O.T. (order no.) 33240	DIAMETRO (outside diam.) 12.750"	ESPESOR (thickness) 0.250"	GRADO (grade) A-53-B	ESPECIFICACION (specification) ASTM	PROCESO (process) ERW	PEDIDO (contract) 100000317	O PREPARACION (preparation order) B-088-2004	PROVEEDOR (supplier) AHMSA	FECHA (date) 13/07/04		
No. CERTIFICADO (certificate No.): CLIENTE (customer): PLESA ANAHUAC Y CIAS. S.A. DE C.V. DIRECCION (address): AV. VALLE DE LAS ALAMEDAS # 66 O COL. SAN FCO. CHILPAN TULTILAN, EDO DE MEXICO C.P. 54940.					O PREPARACION B-088-2004					PROVEEDOR AHMSA	

TUBO (pipe)	COLADA (heat)	T L P O E C	UNIDADES (units)	PSI (Y.S.)	ORIENTACION (orientation)	TAMANO (size)	% EL. SRTS.	BEND	HARDNESS	PRUEBA DE IMPACTO (Impact Test)			DWTT			ORIENTACION (orientation)	TAMANO (size)	SHEAR AREA	SHEAR AREA	SHEAR AREA	T L P O E C	C	Mn	P	S	SI	AI	Cu	Cr	Ni	Mo	Ti	Nb	B	V	N	Als	Ca	PCM	CE
										ENERGY (ft-lb)	ORIENTACION (orientation)	TAMANO (size)	SHEAR AREA	SHEAR AREA	SHEAR AREA																									
488	430050	H 7	6	61015	80691	33	0.82														P 7	0.15	0.45	0.019	0.015	0.007	0.050	0.019	0.025	0.015	0.010	0.002	0.001	-	0.003	-	-	-	-	-
					74530																P 7	0.15	0.48	0.017	0.009	0.025	0.020	0.017	0.045	0.008	0.002	0.002	-	0.002	-	-	-	-	-	
					69021																P 7	0.15	0.46	0.018	0.013	0.007	0.031	0.015	0.021	0.019	0.008	0.002	0.003	-	0.001	-	-	-	-	-
					79612																P 7	0.16	0.46	0.018	0.013	0.007	0.031	0.015	0.021	0.019	0.008	0.002	0.003	-	0.001	-	-	-	-	-
					68727																P 7	0.16	0.46	0.018	0.013	0.007	0.031	0.015	0.021	0.019	0.008	0.002	0.003	-	0.001	-	-	-	-	-
					74957																P 7	0.16	0.48	0.013	0.011	0.010	0.042	0.014	0.015	0.033	0.008	0.002	0.001	-	0.002	-	-	-	-	-
					65478																P 7	0.16	0.48	0.013	0.011	0.010	0.042	0.014	0.015	0.033	0.008	0.002	0.001	-	0.002	-	-	-	-	-
					72062																P 7	0.17	0.45	0.018	0.012	0.011	0.038	0.036	0.050	0.032	0.015	0.002	0.001	-	0.002	-	-	-	-	-
					68890																P 7	0.17	0.45	0.018	0.012	0.011	0.038	0.036	0.050	0.032	0.015	0.002	0.001	-	0.002	-	-	-	-	-
					74052																P 7	0.16	0.47	0.017	0.009	0.011	0.042	0.054	0.085	0.055	0.025	0.002	0.001	-	0.002	-	-	-	-	-
					77331																P 7	0.16	0.47	0.017	0.009	0.011	0.042	0.054	0.085	0.055	0.025	0.002	0.001	-	0.002	-	-	-	-	-
					73041																P 7	0.16	0.47	0.017	0.009	0.011	0.042	0.054	0.085	0.055	0.025	0.002	0.001	-	0.002	-	-	-	-	-
					66445																P 7	0.15	0.46	0.015	0.011	0.012	0.049	0.013	0.017	0.022	0.003	0.001	0.001	-	0.002	-	-	-	-	-
					77581																P 7	0.15	0.46	0.015	0.011	0.012	0.049	0.013	0.017	0.022	0.003	0.001	0.001	-	0.002	-	-	-	-	-
					66150																P 7	0.15	0.46	0.017	0.013	0.012	0.043	0.019	0.036	0.028	0.011	0.002	0.001	-	0.002	-	-	-	-	-

PRUEBA HIDROSTATICA: PRESION: 820 PSI TIEMPO: 10 seg
 (hydrostatic test) (pressure) (time)
 ULTRASONIDO: STANDARD DE REFERENCIA: G
 (ultrasonic) (REFERENCE STANDARD)
 RAYOS X (RT): PENETROMETRO (penetrometer): N/A
 (X-ray)
 NORMALIZADO DE SOLDADURA: TEMPERATURA (temperature): 1600° F
 (heat treatment yield)
 REFERENCIA STANDARD: F.U.T. DRILLED HOLE 1/16" G.U.T. DRILLED HOLE 1/8"
 U.I. NOTCH N.S. J.U.I. NOTCH V-10 L.R.T. HOLE 1/16" N.R.T. HOLE 2.21 O. RT HOLE 2.41
 LOCALIZACION (location)

CERTIFICAMOS QUE EL MATERIAL DESCRITO HA SIDO HECHO DE ACUERDO CON LA ESPECIFICACION MENCIONADA, Y QUE LOS RESULTADOS SON COMO APARECEN EN LOS REGISTROS DE LA COMPANIA.
 (WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MADE IN ACCORDANCE WITH THE SPECIFICATION MENTIONED AND THAT THESE TEST RESULTS ARE AS THEY APPEAR IN RECORDS OF THE COMPANY.)
 CONTROL DE CALIDAD
 Tubacero, S.A. DE C.V.
 04
 TUME-013

