



Ave. Guerrero
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Col. Del Norte
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CERTIFICADO DE TUBERIA

PIPE CERTIFICATE

O.T. (order no.) 33376	DIAMETRO (outside diam.) 10.750"	ESPESOR (thickness) 0.225"	GRADO (grade) X-42/B/A53 B	ESPECIFICACION (specification) API 5L ED. 43/ASTM	PROCESO (process) ERW	PEDIDO (contract) 492	CLIENTE/CUSTOMER: PLESA ANAHUAC Y CIAS. S.A. DE C.V.	AV. VALLE DE LAS ALAMEDAS # 66 O	FECHA (date) 14/12/05
							DIRECCION (address): COL. SAN. FCO. CHILPAN TULTITLAN, EDO DE MEXICO C.P. 54940.	PROVEEDOR (supplier) HYLSA	
							O. PREPARACION (preparation order) B-157-2005		

No CERTIFICADO (certificate No.):

050740

TUBO (pipe)	COLADA (heat)	T Y F E	L O C	UNDADES (units)	PSI (Y.S.)	ORIENTACION (orientation)	TAMANO (size)	TAMANO (size)	TAMANO (size)	BEND	HARDNESS	PRUEBA DE IMPACTO (Impact Test)			DWT			GRAIN SIZE																										
												ENERGY (Joules)	AVG	AVG	AVG	1	2	AVG	1	2	AVG	T	Y	F	E	C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Ti	Nb	B	V	N	As	Ca	PCM	CE
78	151709	H	7	6	44200	79000	40	0.66	69500			1	2	3	1	2	AVG	1	2	AVG	1	2	AVG	0.18	0.49	0.013	0.008	0.110	0.039	0.050	0.030	0.040	0.005	-	-	-	-	-	-	-	-	-	-	0.28
149	251849	H	7	6	45800	60800	38	0.75	72100			1	2	3	1	2	AVG	1	2	AVG	1	2	AVG	0.18	0.47	0.013	0.009	0.110	0.046	0.020	0.030	0.030	0.005	-	-	-	-	-	-	-	-	-	-	0.27
178	252128	H	7	6	42200	71600	40	0.59				1	2	3	1	2	AVG	1	2	AVG	1	2	AVG	0.18	0.55	0.014	0.008	0.120	0.036	0.040	0.020	0.040	0.010	-	-	-	-	-	-	-	-	-	0.28	

PRUEBA HIDROSTATICA (Hydrostatic test) PRESION (pressure) 1500 Psi (line) 10 sec 0 TEMPO (time)

ULTRASONICO (UT) (Ultrasonic) STANDARD DE REFERENCIA (REFERENCE STANDARD) G 0

RAYOS-X (RT) (X-ray) PENETRACION (penetration) N/A

REFERENCIA DE SOLDADURA (heat treatment weld) F UT DRILLED HOLE 1/8" G UT DRILLED HOLE 1/8" 1600° F

UT NOTCH N.S. UT NOTCH V-10L RT HOLE 1/8" N RT HOLE 2-2T O RT HOLE 2-4T 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

Control de Calidad (Quality Control)