



Avila Guerrero  
No. 3729 Int.  
Col. Del Norte  
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**CERTIFICADO DE TUBERIA**

**PIPE CERTIFICATE**

**090055**

OT (order no.)	DIAMETRO (outside diam.)	ESPESOR (thickness)	GRADO (grade)	ESPECIFICACION (specification)	PROCESO (process)	PEDIDO (contract)	O. PREPARACION (preparation order)	PROVEEDOR (supplier)	FECHA (date)
13104	20.000"	0.625"	X-52 PSL1	API 5L 43 ED	DSAW	5652	TR-010-2009	AHMSA	19/01/2009

No CERTIFICADO (certificate No.):	CLIENTE (customer):	DIRECCION (address):	AV. VALLE DE LAS ALMEIDAS # 66-0 COL. SAN FCO. CHILPAN
	PLESA ANAHUAC Y CIAS. S.A. DE C.V.	TULITLILAN, EDO. DE MEXICO. C.P. 54940	

TIPO (Type)	CCLADA (Heat)	T P L (Y O C)	PRUEBA DE TENSION (Tensile Test)			BEND	PRUEBA DE IMPACTO (Impact Test)			DWT		GRAN SIZE	ANALISIS QUIMICO / Chemical Analysis (%)																		
			UNIDADES (Units)	OPERACION (Operation)	TAMANO (Size)		% EL. V.S.F.S.	C. OPERACION (Operation)	TAMANO (Size)	SHEAR AREA (Area)	SHEAR AREA (Area)		Y	P	C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Ti	Nb	B	V	N	As	Ca
4813	182191	H 7	6	84200	77800	40	0.91					H 7	0.07	1.14	0.012	0.004	0.304	-	0.030	0.020	0.020	0.007	0.008	0.023	0.0001	0.002	0.005	0.045	0.001	-	0.26
4816	182186	H 7	6	81000	74700	37	0.92					P 7	0.08	1.10	0.012	0.002	0.270	-	0.021	0.023	0.020	0.003	0.008	0.017	0.0001	0.004	0.007	0.029	0.002	-	0.28
5021	182352	H 7	6	84800	75400	42	0.86					H 7	0.07	1.15	0.015	0.006	0.316	-	0.020	0.020	0.020	0.009	0.010	0.021	0.0005	0.005	0.039	0.001	-	0.27	
5099	182349	H 7	6	81900	76600	41	0.89					P 7	0.07	1.09	0.011	0.003	0.290	-	0.013	0.019	0.018	0.002	0.007	0.015	0.0001	0.004	0.007	0.033	0.002	-	0.26
5153	182351	H 7	6	86200	77200	37	0.89					H 7	0.08	1.14	0.018	0.005	0.283	-	0.040	0.030	0.020	0.009	0.009	0.021	0.0001	0.003	0.005	0.037	0.001	-	0.29
5314	182350	H 7	6	80500	74400	43	0.90					P 7	0.07	1.12	0.013	0.003	0.300	-	0.022	0.025	0.021	0.004	0.010	0.020	0.0002	0.004	0.006	0.041	0.001	-	0.28
5335	182359	H 7	6	83600	78600	40	0.91					H 7	0.08	1.11	0.014	0.005	0.280	-	0.010	0.020	0.020	0.006	0.011	0.025	0.0001	0.003	0.005	0.038	0.002	-	0.28
5077	182179	H 7	6	84200	77800	40	0.91					P 7	0.07	1.12	0.013	0.003	0.300	-	0.014	0.020	0.020	0.003	0.011	0.019	0.0001	0.006	0.004	0.037	0.002	-	0.26
5315	182355	H 7	6	80500	74400	43	0.90					H 7	0.08	1.13	0.015	0.005	0.297	-	0.020	0.020	0.020	0.002	0.011	0.022	0.0001	0.006	0.004	0.041	0.001	-	0.28
5380	182354	H 7	6	80500	74400	43	0.90					P 7	0.07	1.12	0.013	0.003	0.280	-	0.021	0.024	0.021	0.004	0.010	0.020	0.0002	0.004	0.007	0.038	0.001	-	0.26
5436	182186	H 7	6	83600	78600	40	0.91					H 7	0.08	1.13	0.015	0.005	0.297	-	0.014	0.020	0.020	0.002	0.011	0.019	0.0001	0.006	0.004	0.037	0.002	-	0.26
5553	182352	H 7	6	83600	78600	40	0.91					P 7	0.07	1.12	0.012	0.003	0.300	-	0.014	0.020	0.020	0.002	0.011	0.020	0.0001	0.006	0.004	0.039	0.002	-	0.27
5616	182355	H 7	6	83600	78600	40	0.91					P 7	0.06	1.12	0.009	0.004	0.310	-	0.033	0.023	0.022	0.004	0.010	0.021	0.0003	0.003	0.004	0.045	0.001	-	0.27
												P 7	0.07	1.14	0.009	0.004	0.310	-	0.034	0.023	0.022	0.004	0.010	0.023	0.0003	0.002	0.004	0.047	0.001	-	0.27

PRUEBA HIDROSTATICA (Hydrostatic test)	PRESSION (pressure)	2930	Pa	TIEMPO (time)	10	sec	ORIENTACION (orientation):	1. TRANSVERSA (transverse)	2. LONGITUDINAL (longitudinal)	3. RECTANGULAR (rectangular)	4. CILINDRICA (round bar) 0.50"	5. CILINDRICA (round bar) 0.50"	6. SOLDADURA (weld)	7. METAL BASE (base metal)	8. ZONA AFFECTADA (h.a.z)	9. LINEA DE FUSION (fusion line)	TIPO DE PRUEBA (type)	H. COLADA (heat)	P. PRODUCTO (product)	R. REMUESTREO (recheck)
UT TRANSOMIDOUN (T)	STANDARD DE REFERENCIA (REFERENCE STANDARD)			F																
RA (OSX - RT)	PENETRIMETRO (penetrimeter)			N° 17 A.S.T.M.																
NORMALIZADO DE SOLDADURA (heat treatment weld)	TEMPERATURA (temperature)			N/A																
REFERENCIA STANDARD (reference standard)	F. U.T. DRILLED HOLE 1/8"			G. U.T. DRILLED HOLE 1/8"																
UT NOTCH N.S. U.T. NOTCH N.10.L. RT HOLE 1/16"	N. RT HOLE 2/16"			O. RT HOLE 2/16"																

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 COMPAÑIA. (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 (Quality Control)

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