



**TECNO CORPORATIVO INDUSTRIAL SA DE CV**  
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Empresa Certificada Según:  
**NMX-CC-9001-IMNC-2008 / ISO 9001 : 2008**



**REPORTE DE PRUEBAS NUMERO:**  
**TEST REPORT NUMBER:**  
 CERTIFICADO SERIE / CERTIFICATE SERIES:  
**MTR-TCI-AV-01098**

**CERTIFICADO DE INSPECCION / INSPECTION CERTIFICATE / EN 10204: 2004 - 3.1.**

<b>NOMBRE DEL CLIENTE / CLIENT NAME:</b>		<b>ORDEN DE COMPRA / P.O.NUM.</b>	<b>PED-ORP</b>	<b>REFERENCIA / REFERENCE</b>	<b>FECHA / DATE:</b>	<b>Codigo Formato:</b>																	
PLESA ANAHUAC Y CIAS, S.A. DE C.V.		10765	2627		lunes, 18 de julio de 2011	QHTCI-0711																	
<b>TIPO DE MATERIAL / MATERIAL TYPE :</b>																							
<b>CODIGOS y NORMAS APLICABLES / APPLICABLE CODES &amp; NORMS</b>																							
ASTM A 420 / A420M - 07, ASME A/SA420 WPL6 / NACE-MR-01-75/ISO 15156-03				ANSI B16.25 / ASME B16.25-03 // ASME Boiler and Pressure Vessel SECC II , Code Part A, 2010																			
<b>PROCESOS / PROCESS</b>				<b>TRATAMIENTOS TERMICOS / HEAT TREATMENTS</b>																			
HOT FORMED / FORMADO EN CALIENTE				NORMALIZED 920°C AND ALLOWED TO COOL IN STILL AIR / NORMALIZADO A 940°C Y ENFRIADO AL AIRE CALMADO																			
<b>DESCRIPCION DEL ARTICULO / DESIGNATION OF ARTICLE :</b>																							
<b>PW ITEM</b>	<b>CANTIDAD / QTY</b>	<b>INFORMACIÓN / INFORMATION</b>			<b>MATERIA PRIMA / BASE MATERIAL</b>			<b>COLADA / HEAT CODE</b>															
1	7	3" TEE BW SCH STD ANSI B16.9/ASME B16.9-2007 SEAMLESS			MILL HEAT-SUPPLIER H: T42699			42699															
2	2	8" TEE BW SCH STD ANSI B16.9/ASME B16.9-2007 SEAMLESS			MILL HEAT-SUPPLIER H: T41272			41272															
3	4	8" X 90 DEG. ELBOW BW LR SCH STD ANSI B16.9/ASME B16.9-2007 SEAMLESS			MILL HEAT-SUPPLIER H: 324331			324331															
4	16	3" X 90 DEG. ELBOW BW LR SCH STD ANSI B16.9/ASME B16.9-2007 SEAMLESS			MILL HEAT-SUPPLIER H: S32536			32536															
5	4	3" X 45 DEG. ELBOW BW LR SCH STD ANSI B16.9/ASME B16.9-2007 SEAMLESS			MILL HEAT-SUPPLIER H: S47235			47235															
<b>% COMPOSICION QUIMICA / % CHEMICAL COMPOSITION :</b>																							
<b>%</b>	<b>C</b>	<b>Mn</b>	<b>Si</b>	<b>P</b>	<b>S</b>	<b>Cr</b>	<b>Ni</b>	<b>Mo</b>	<b>Cu</b>	<b>SN</b>	<b>AL</b>	<b>Cb</b>	<b>V</b>	<b>Ti</b>	<b>Co</b>	<b>As</b>	<b>Sb</b>	<b>H ppm</b>	<b>N</b>	<b>CEQ</b>	<b>Cr+Mo</b>	<b>(1*)</b>	
REQUERIDO/ Required MAX PW ITEM COLADA / HEAT CODE	≤ 0.30	0.50 - 1.35	0.15 - 0.40	≤ 0.035	≤ 0.040	≤ 0.30	≤ 0.40	≤ 0.12	≤ 0.40			≤ 0.06	≤ 0.06										
1 42699	0.180	0.810	0.29	0.018	0.001	0.04	0.03	0.022	0.066			0.000	0.000							0.334	0.062	0.158	
2 41272	0.190	0.830	0.31	0.018	0.002	0.05	0.03	0.010	0.041			0.000	0.000							0.345	0.060	0.131	
3 324331	0.140	0.910	0.19	0.01	0.002	0.11	0.03	0.010	0.06			0.001	0.004							0.322	0.120	0.214	
4 32536	0.190	0.820	0.3	0.009	0.001	0.02	0.018	0.020	0.031			0.001	0.001							0.338	0.040	0.090	
5 47235	0.180	0.760	0.28	0.011	0.001	0.04	0.03	0.010	0.032			0.001	0.001							0.321	0.050	0.113	
<b>PRUEBAS DE TENSION / TENSILE TEST</b>								<b>PRUEBAS DE IMPACTO / IMPACT TEST</b>															
<b>No. PRUEBA / TEST No.</b>	<b>Dimension del Especimen / Specimen dimension</b>	<b>Dirección</b>	<b>temperatura (F)</b>	<b>RESISTENCIA Tensil/ Strength Mpa / (Ksi) UTS-Rm</b>	<b>LIMITE ELASTICO / Yield Point (Mpa) / (Ksi) YS - Rp0.2% (Min)</b>	<b>Elong.-A (%) (Min)</b>	<b>Red. of Area (%)</b>	<b>No. PRUEBA / Test No.</b>	<b>Temperatura</b>	<b>Dirección</b>	<b>Resiliencia KV Energy (Joules)</b>	<b>Promedio / Average</b>	<b>Expansión Lateral / Lateral expansion</b>	<b>Fractura / Fracture</b>	<b>DUREZA / Hardness HB</b>								
REQUERIDO/ Required MAX PW ITEM COLADA / HEAT CODE				415-655 / (60-95)	240 / (35)	22		-45° C (-50°F)			(Three specimens)												
1 42699	10 X 10 mm.	LONG.		522	331	32		-45° C (-50°F)			32 29 28	29.667			123								
2 41272	10 X 10 mm.	LONG.		509	322	42		-45° C (-50°F)			37 35 39	37			122								
3 324331	10 X 10 mm.	LONG.		460	318	41		-45° C (-50°F)			41 38 40	39.667			135								
4 32536	10 X 10 mm.	LONG.		488	327	50		-45° C (-50°F)			45 43 40	42.667			122								
5 47235	10 X 10 mm.	LONG.		496	343	33		-45° C (-50°F)			48 46 43	45.667			132								
<b>NOTA / NOTE:</b> NO WELDING HAS BEEN PERFORMED // THIS PRODUCT IS FREE FROM MERCURY AND RADIOACTIVE // BY AGREEMENT THE LIMIT FOR COLUMBUM MAY BE INCREASE UP TO 0.05% ON HEAT ANALYSIS AND 0.06% ON PRODUCT ANALYSIS. 1) Cu+Ni+Cr+V+Mo ≤ 1.00 Cr+Mo ≤ 0.32																							
<b>MARCADO / MARKING :</b>		VX VX FLANGES & FITTINGS ©			QA TCI / Inspectores autorizados / Authorized Works Inspector:			Ing. Jorge Ortiz / Ing. Andres Lira / Ing. Rafael Eguia			Digitalizado / Digitalized:												

Certificamos que todos los resultados de pruebas e información de proceso y procedimientos asentados en el presente, son correctos y verdaderos, concordando con los Registros de soporte técnico, Aseguramiento de calidad y Sistema de Gestión de la Calidad. / We here by certify that all test results and process information contained here in, are true and correct in accordance with in all the records of technical support, QA management and the company quality management sistem. ( EMPRESA CERTIFICADA SEGUN LA NORMA NMX-CC-9001-IMNC-2008/ ISO 9001:2008 para las actividades siguientes: FABRICANTE DE BRIDAS Y CONEXIONES / certified company for the following activities: MANUFACTURING PROCESS OF FLANGES AND FITTINGS.)

**CODIGO DE SEGURIDAD / CERTIFICATE NO. / VERIFICADO POR:**  
**APPROVED BY:**  
 A-137 B-400242  
 A47B3C80D13E8F5