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CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)		Numero: Number: 26448	Pagina/Page: 2
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Vendido a: Sold to: PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No: 13591	Lista de Empaque: Packing List: 13721	Fecha/Date: 25 de Octubre de 2012
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234 WPB-07, NACE MR 01.75-2003 Conform to ASME II Ed. 2001 ASME SA-234, Grade WPB, NACE MR0103-2003	Dimensiones y tolerancias / Dimension and tolerances ASME B 16.9 - 2007		Factura/Invoice: Bocas / Ends Biselado / Bevelled ends

DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION				PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C				
ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HBW	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
12	T54644	2	CODO 14 X 90° R.I. CED-40	244	432	33	111					
13	T52829	2	CODO 14 X 90° R.I. CED-40	305	468	31	126					
14	T61397	6	CODO 14 X 90° R.I. CED-40	304	483	42	118					
15	T50526	5	CODO 12 X 45° SHC-80	309	474	37	92					
16	T51311	4	CODO 12 X 45° SHC-80	303	477	35	111					
17	T49869	3	CODO 10 X 45° CED-80	301	473	43	118					
18	T55579	3	CODO 10 X 45° CED-80	332	478	34	98					
19	T51542	9	TEE RED. 8 X 4° CED-XS	311	489	42	120					
20	T46857	1	TEE RED. 8 X 4° CED-XS	316	488	40	122					
21	T57980	15	CODO 2 1/2 X 45° CED-XS	335	484	41	143					
22	T41975	1	CODO 14 X 45 CED-XS	311	473	42	100					

ANALISIS QUIMICO / CHEMICAL ANALYSIS															Certificamos que los resultados de los Análisis Químicos y Pruebas Mecánicas son verdaderos o una copia fiel de los certificados enviados por el Fabricante y/o el proveedor.	
PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb		
HF	T54644	54644	0.310	0.180	0.670	0.006	0.003	0.270	0.050	0.070	0.022	0.050	0.000	0.000	de Materia Prima (Tubería Sin Costura) conforme ASTM A106 Grado B con N°:	
HF	T52829	52829	0.310	0.180	0.680	0.012	0.001	0.280	0.040	0.057	0.022	0.030	0.000	0.000	We certify that result of chemical analysis and mechanical test are true and correct	
HF	T61397	61397	0.310	0.180	0.650	0.012	0.003	0.280	0.040	0.065	0.028	0.030	0.000	0.000	copy of the test certificate issued by the manufacturer and/or supplier Raw	
HF	T50526	50526	0.310	0.170	0.690	0.013	0.003	0.270	0.060	0.060	0.019	0.030	0.000	0.000	material (Seamless Pipe) certs conform to ASTM A106 Grade B N°:	
HF	T51311	51311	0.310	0.180	0.660	0.011	0.001	0.270	0.040	0.062	0.027	0.040	0.000	0.000	11042278 11033329 12065449 10051539 10040934 10027740	
HF	T49869	49869	0.300	0.180	0.660	0.014	0.002	0.260	0.020	0.064	0.020	0.030	0.000	0.000	11044321 11022168 10016510 12018763 8063657	
HF	T55579	55579	0.310	0.180	0.660	0.008	0.002	0.280	0.040	0.080	0.023	0.050	0.000	0.000		
HF	T51542	51542	0.320	0.180	0.710	0.011	0.003	0.280	0.040	0.061	0.018	0.030	0.000	0.000		
HF	T46857	46857	0.310	0.180	0.660	0.011	0.003	0.300	0.040	0.077	0.029	0.040	0.000	0.000	*Este material cumple con los requerimientos especificados en la orden*.	
HF	T57980	57980	0.310	0.180	0.670	0.012	0.002	0.280	0.050	0.062	0.015	0.040	0.000	0.000	*The material of this certificate heat number mentioned above is in compliance	
HF	T41975	41975	0.310	0.180	0.680	0.008	0.001	0.270	0.050	0.068	0.019	0.030	0.000	0.000	with the requirements specified in the order*.	

Notas: Formado en caliente a 620°C-980°C, enfriado al aire; Formado en frío normalizado a 940°C max. Tiempo de permanencia 10'. Inspección Dimensional: Satisfactoria. HF: FORMADO EN CALIENTE/HOT FORMED	Notes: Hot formed fittings in a range from 620°C to 980°C, cooled in still air. Cold formed normalized at 940°C max. Holding time 10'. Visual dimensional check: Satisfactory CF: FORMADO EN FRIO/COLD FORMED	 Quality Manager / Jefe de Calidad: ING. WALDO GALLEGOS GALVAN	The Products described herein were produced in accordance with the above referenced specification and are identified with the "R" which is permanently marked on each fitting./ The values of hardness for fittings NPS 2 1/2" and smaller ones obtain from the conversion of hardness Rockwell B to hardness Brinell HBW, by means of table WILSON DESK CHART 60. Los valores de dureza para conexiones de NPS de 2 1/2" y menores, se obtienen de la conversión de dureza Rockwell B a dureza Brinell HBW mediante la tabla WILSON DESK CHART 60.
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