

<b>CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE</b> ( DIN EN 10204:2004E - ISO 10474 3.1.B )		Numero: Number:	Pagina/Page:
		27225	3

Vendido a: Sold to:	PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No:	14833 - 13086 - 14336 - 14222	Lista de Empaque: Packing List:	14113	Fecha/Date:	22 de Marzo de 2013
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
23	T63735	1	CODO 10 X 45° CED-XS	315	488	38	141					
24	T62024	3	CODO 10 X 45° CED-XS	319	477	36	129					
25	T63084	4	CODO 10 X 45° CED-XS	306	475	35	134					
26	S38130	9	CODO 1 1/2 X 45° CED-XS	358	524	34	130					
27	S24683	2	CODO 1 1/2 X 45° CED-XS	331	482	42	133					
28	T62372	2	TEE 10 CED-STD	317	482	45	120					
29	T62907	22	TEE 10 CED-STD	315	481	44	118					
30	T61865	2	TEE 6 CED-STD	320	486	36	155					
31	T62890	48	TEE 6 CED-STD	263	478	36	139					
32	T5007	50	CODO 3 X 45° CED-XS	357	504	30	163					
33	S25633	60	CODO 2 X 45° CED-XS	316	491	30	184					

ANALISIS QUIMICO / CHEMICAL ANALYSIS														
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	T63735	63735	0.300	0.170	0.670	0.017	0.002	0.280	0.050	0.080	0.023	0.030	0.000	0.000
HF	T62024	62024	0.300	0.170	0.660	0.010	0.001	0.290	0.060	0.074	0.026	0.040	0.000	0.000
HF	T63084	63084	0.310	0.180	0.680	0.012	0.001	0.270	0.050	0.050	0.023	0.030	0.000	0.000
HF	S38130	38130	0.313	0.180	0.710	0.009	0.001	0.280	0.030	0.043	0.020	0.022	0.001	0.001
HF	S24683	24683	0.344	0.190	0.790	0.007	0.001	0.280	0.050	0.040	0.040	0.020	0.001	0.001
HF	T62372	62372	0.310	0.170	0.670	0.014	0.001	0.290	0.060	0.056	0.031	0.030	0.000	0.000
HF	T62907	62907	0.320	0.180	0.700	0.007	0.001	0.280	0.060	0.077	0.029	0.040	0.000	0.000
HF	T61865	61865	0.300	0.170	0.670	0.016	0.001	0.280	0.040	0.053	0.018	0.030	0.000	0.000
HF	T62890	62890	0.350	0.190	0.800	0.013	0.001	0.290	0.050	0.074	0.037	0.040	0.000	0.000
HF	T5007	5007	0.310	0.170	0.760	0.005	0.001	0.300	0.020	0.040	0.004	0.020	0.000	0.000
HF	S25633	25633	0.330	0.190	0.740	0.012	0.003	0.280	0.040	0.040	0.010	0.016	0.002	0.002

Certificamos que los resultados de los Analisis Químicos y Pruebas Mecánicas son verdaderos o una copia fiel de los certificados enviados por el Fabricante y/o el proveedor de Materia Prima (Tubería Sin Costura) conforme ASTM A106 Grado B con N°:  
We certify that result of chemical analysis and mechanical test are true and correct copy of the test certificate issued by the manufacturer and/or supplier Raw material (Seamless Pipe) certs conform to ASTM A106 Grade B N°:  
13006443 12073167 12088238 258860 160515 12085287  
13010743 12066078 12084198 12068156 12088061  
Este material cumple con los requerimientos especificados en la orden".  
The material of this certificate heat number mentioned above is in compliance 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	 <b>Quality Manager / Jefe de Calidad:</b> <b>ING. WALDO GALLEGOS GALVAN</b>	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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