

<b>CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE</b> ( DIN EN 10204:2004E - ISO 10474 3.1.B )		Numero: Number:	Pagina/Page:
		22175	1 DE 1
Vendido a: Sold to:	PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No:	5826 - 5831
		Lista de Empaque: Packing List:	11284
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234M WPB-07, NACE MR 01.75-2003 Conform to ASME II Ed. 2001 ASME SA-234M Grade WPB, NACE MR0103-2003		Dimensiones y tolerancias / Dimension and tolerances <b>ASME B 16.9 - 2007 and ASME B 16.28 - 1994</b>	
		Factura/Invoice: Bocas / Ends Biselado / Bevelled ends	
		Fecha/Date: 17 de Febrero de 2009	

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. %"	DUREZA HARDNESS HBW	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	T41761	6	CODO 16 X 45° CED-STD	315	476	37	112					
2	T42101	24	CODO 6 X 90° R.L. CED-STD.	263	504	33	107					
3	T42416	16	CODO 6 X 90° R.L. CED-STD.	250	440	38	103					
4	S33737	10	CODO 6 X 90° R.L. CED-STD.	308	466	36	99					
5	T41224	55	TEE 4 CED-STD	297	481	39	124					
6	T40156	3	TEE 8 CED-XS	260	464	34	116					
7	T40516	1	CODO 14 X 45° CED-STD	322	503	33	99					
8	T41975	5	CODO 14 X 45° CED-STD	330	496	43	118					
9	T42339	9	CODO 12 X 90° R.L. CED-STD	332	498	40	118					
10	S31158	46	CODO 4 X 90° R.L. CED-XS	284	461	33	128					
11	T41644	6	TEE RED. 8 X 6 CED-STD	283	461	37	98					

ANALISIS QUIMICO / CHEMICAL ANALYSIS															Certificamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas 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°: 8068640 8057839 8065048 479795 8050483 8054201 8039152 8062571 9002660 462048 8059926 "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".
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	T41761	41761	0.300	0.170	0.680	0.011	0.001	0.280	0.040	0.035	0.007	0.020	0.000	0.000	
HF	T42101	42101	0.290	0.160	0.680	0.008	0.001	0.280	0.050	0.045	0.015	0.030	0.000	0.000	
HF	T42416	42416	0.300	0.170	0.670	0.012	0.001	0.300	0.040	0.054	0.022	0.030	0.000	0.000	
HF	S33737	33737	0.330	0.190	0.750	0.015	0.001	0.270	0.030	0.040	0.010	0.020	0.001	0.002	
HF	T41224	41224	0.300	0.170	0.660	0.013	0.002	0.280	0.050	0.057	0.016	0.030	0.000	0.000	
HF	T40156	40156	0.310	0.180	0.690	0.010	0.001	0.290	0.040	0.049	0.006	0.030	0.000	0.000	
HF	T40516	40516	0.310	0.180	0.680	0.009	0.001	0.280	0.050	0.066	0.008	0.030	0.000	0.000	
HF	T41975	41975	0.300	0.170	0.680	0.008	0.001	0.270	0.050	0.069	0.019	0.030	0.000	0.000	
HF	T42339	42339	0.310	0.180	0.670	0.010	0.002	0.280	0.050	0.070	0.009	0.030	0.000	0.000	
HF	S31158	31158	0.330	0.200	0.740	0.011	0.001	0.280	0.030	0.037	0.010	0.012	0.001	0.000	
HF	T41644	41644	0.300	0.170	0.680	0.010	0.002	0.280	0.050	0.055	0.005	0.030	0.000	0.000	

<p>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</p>	<p>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</p> <p style="font-size: 2em; font-weight: bold; text-align: center;">Quality Manager/Jefe de Calidad: ING. WALDO GALLEGOS GALVAN</p>
<p>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.</p>	
CC-008	