

**CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE**
(DIN EN 10204:2004E - ISO 10474 3.1.B)

Número:
Number:

24281

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Vendido a: Sold to:	PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No:	9798 - 9833 -	Lista de Empaque: Packing List:	12477	Fecha/Date:	24 de Enero de 2011
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 and ASME B 16.28 - 1994			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	T52004	18	CODO 12 X 90° R.L. CED-STD	333	486	34	107					
13	T49309	4	RED. CONC. 16 X 14 CED-STD	345	480	40	120					
14	T46079	4	RED. CONC. 16 X 14 CED-STD	365	505	46	124					
15	T52235	14	TEE 6 CED-STD	315	494	33	104					
16	T50380	11	TEE 6 CED-STD	326	490	30	102					
17	T52716	11	TEE RED. 6 X 3 CED-STD	320	492	40	122					
18	T52235	9	TEE RED. 6 X 3 CED-STD	310	481	41	122					
19	T50825	8	TEE RED. 6 X 4 CED-STD	317	482	43	111					

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 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°: 10060069 10040735 10022416 10053599 10050022 10060272 10057673 10049559 "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	T52004	52004	0.310	0.180	0.670	0.014	0.002	0.290	0.060	0.054	0.024	0.040	0.000	0.000	
CF	T49309	49309	0.300	0.180	0.670	0.012	0.003	0.290	0.020	0.045	0.020	0.020	0.000	0.000	
CF	T46079	46079	0.310	0.180	0.670	0.017	0.003	0.250	0.050	0.069	0.030	0.040	0.000	0.000	
HF	T52235	52235	0.320	0.180	0.730	0.015	0.002	0.280	0.040	0.062	0.022	0.040	0.000	0.000	
HF	T50380	50380	0.300	0.170	0.680	0.011	0.002	0.280	0.050	0.057	0.024	0.030	0.000	0.000	
HF	T52716	52716	0.320	0.180	0.680	0.010	0.002	0.300	0.040	0.072	0.028	0.050	0.000	0.000	
HF	T52235	52235	0.300	0.170	0.690	0.015	0.002	0.280	0.040	0.060	0.021	0.040	0.000	0.000	
HF	T50825	50825	0.300	0.170	0.650	0.011	0.001	0.270	0.050	0.048	0.012	0.020	0.000	0.000	

Notas:	Notes:
Formado en caliente a 620°C-980°C, enfriado al aire; Formado en frío normalizado a 940°C max.	Hot formed fittings in a range from 620°C to 980°C, cooled in still air, Cold formed normalized at 940°C max.
Tiempo de permanencia 10'.	Holding time 10'.
Inspección Dimensional: Satisfactoria.	Visual dimensional check: Satisfactory
HF: FORMADO EN CALIENTE/HOT FORMED	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.