

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

Numero:
Number:

30589

Pagina/Page:

3

Vendido a: Sold to:	PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No:	24390 -	Lista de Empaque: Packing List:	16006	Fecha/Date:	27 de octubre de 2016
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234 WPB-13e Conform to ASME II Ed. 2013 ASME SA-234, Grade WPB		Dimensiones y tolerancias / Dimension and tolerances ASME B 16.9 - 2012			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	T79926	12	TEE 10 CED-STD	331	502	45	135					
24	T80639	50	TEE 6 CED-STD	297	483	45	142					
25	T77075	10	RED. CONC. 16 X 12 CED-STD	318	480	31	136					
26	T72649	3	TEE 12 CED-80	260	451	41	135					
27	T8767	10	CODO 5 X 90° R.C. CED-XS	267	445	36	148					
28	S74455	40	CODO 2 X 90° R.C. CED-XS	306	484	35	155					
29	T79728	5	RED. CONC. 12 X 6 CED-XS	315	486	42	145					

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°: 16005965 16008730 15019045 15015242 15007939 16011035 16002805 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	
HF	T79926	79926	0.330	0.180	0.730	0.006	0.002	0.280	0.070	0.068	0.030	0.030	0.000	0.000
HF	T80639	80639	0.310	0.180	0.660	0.005	0.002	0.260	0.040	0.066	0.018	0.030	0.000	0.000
CF	T77075	77075	0.320	0.170	0.670	0.006	0.001	0.280	0.050	0.074	0.027	0.040	0.000	0.000
HF	T72649	72649	0.310	0.170	0.660	0.006	0.001	0.280	0.070	0.069	0.016	0.050	0.000	0.000
HF	T8767	8767	0.310	0.190	0.700	0.014	0.002	0.270	0.020	0.022	0.007	0.010	0.000	0.000
HF	S74455	74455	0.320	0.180	0.750	0.017	0.003	0.290	0.050	0.040	0.010	0.021	0.003	0.003
CF	T79728	79728	0.310	0.180	0.670	0.008	0.003	0.260	0.060	0.066	0.018	0.040	0.000	0.000

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. ALFONSO ORTEGA GARCIA

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.
MATERIAL ACCORDING TO NACE MR0175/ISO 15156-1,2009 AND NACE MR0103,2012 ONLY HARDNESS

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