

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE

(DIN EN 10204:2004E - ISO 10474 3.1.B)

Vendido a: Sold to:	PLESA ANAHUAC Y CIA. S. A. DE C. V.	Pedido del Cliente No: Customers Order No:	1999 - 1883 -	Fecha/Date:	16 de Octubre de 2006
Especificaciones y Grados / Standard or Specification and Steel Grade		Dimensiones y tolerancias / Dimension and tolerances		Lista de Empaque: Packing List:	8580
Seamless Fittings according to ASTM A 234-97, A 234-05a, NACE MR 01-75-2003		ASME B 16.9 - 2003 and ASME B 16.28 - 1994		Factura/Invoice:	
Conform to ASME II Ed. 2001 ASME SA-234, Grade WPB				Bocales / 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 HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
23	SC5	10	TEE RED. 4 X 2 CED-STD	319	461	38	156					
24	T29077	20	RED. CONC. 10 X 4 CED-STD	327	489	44	155					
25	T25669	4	CODO 14 X 45 CED-XS	307	470	48	116					
26	RO5	1	CODO 14 X 45 CED-XS	329	499	46	143					
27	S45186	50	CODO 5 X 90° R. I. CED-STD	314	476	35	132					
28	T29031	8	TEE RED. 6 X 3 CED-STD	319	454	37	105					
29	S60750	20	CODO 4 X 45° CED-XS	480	503	30	126					

ANALISIS QUIMICO / CHEMICAL ANALYSIS												
PROCESO PROCESS	COLADA HEAT CODE	COLADA M.P./MOTHER PIPE	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%Nb
HF	SC5	45137	0.321	0.180	0.008	0.002	0.230	0.070	0.120	0.030	0.060	0.001
CF	T29077	29077	0.310	0.170	0.008	0.001	0.280	0.050	0.074	0.038	0.040	0.000
HF	T25669	25669	0.310	0.170	0.014	0.002	0.280	0.060	0.078	0.037	0.030	0.000
HF	RO5	99413	0.344	0.180	0.009	0.003	0.270	0.050	0.058	0.022	0.030	0.000
HF	S45186	45186	0.330	0.190	0.013	0.002	0.280	0.040	0.042	0.020	0.032	0.001
HF	T29031	29031	0.300	0.160	0.009	0.002	0.280	0.050	0.078	0.038	0.040	0.000
HF	S60750	60750	0.321	0.170	0.011	0.003	0.280	0.050	0.070	0.030	0.042	0.001

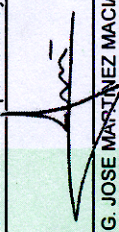
Notas:
Formado en caliente a 620°C-680°C, enfriado al aire. Formado en frío normalizado a 940°C max.
Tiempo de permanencia 10'.
Inspección Dimensional: Satisfactoria.
HF: FORMADO EN CALIENTE/HOT FORMED CF: FORMADO EN FRIO/COLD FORMED

Notas:
Hot formed fittings in a range from 620°C to 680°C, cooled in still air.
Cold formed normalized at 940°C max.
Holding time 10'.
Visual dimensional check: Satisfactory

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°. 42230 6017948 6009582 03000990 316292 6015400 207939

"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".

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.

Jefe de Calidad:
Quality Manager: 
ING. JOSE MARTINEZ MACIAS

CC-008