

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

Número:
Number: 22661

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Vendido a: PLESA ANAHUAC Y CIA. S.A. DE C.V.
Sold to: PLESA ANAHUAC Y CIA. S.A. DE C.V.

Pedido del Cliente No: 6636 - 6738 -
Customers Order No: 6636 - 6738 -

Lista de Empaque: 11546
Packing List: 11546

Fecha/Date: 28 de Julio de 2009

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
ASME B 16.9 - 2007 and ASME B 16.28 - 1994

Factura/Invoice:
Bocas / Ends
Biselado / Bevelled ends

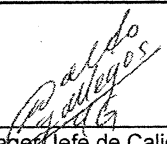
DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION				PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C				
ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HBW	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	T43376	18	CODO 12 X 90° R.I. CED-40	343	503	33	105					
2	T42161	17	TEE RED. 6 X 4 CED-STD	311	479	42	120					
3	T43329	2	TEE RED. 6 X 4 CED-STD	319	494	42	99					
4	T42633	1	TEE RED. 6 X 4 CED-STD	318	482	30	121					
5	T41032	1	TEE RED. 6 X 4 CED-STD	418	591	31	107					
6	T36431	4	CODO 8 X 90° R.C. CED-XS	299	453	41	107					

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°: 9022180 9002335 9007104 9001713 8045572 7049559
PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	
HF	T43376	43376	0.320	0.180	0.700	0.016	0.005	0.280	0.050	0.064	0.013	0.030	0.000	0.000
HF	T42161	42161	0.290	0.170	0.660	0.015	0.001	0.280	0.040	0.049	0.008	0.020	0.000	0.000
HF	T43329	43329	0.310	0.180	0.680	0.012	0.000	0.300	0.040	0.044	0.017	0.020	0.000	0.000
HF	T42633	42633	0.300	0.170	0.670	0.011	0.002	0.270	0.050	0.055	0.018	0.030	0.000	0.000
HF	T41032	41032	0.310	0.180	0.670	0.007	0.002	0.270	0.040	0.065	0.009	0.030	0.000	0.000
HF	T36431	36431	0.310	0.170	0.690	0.009	0.001	0.270	0.050	0.063	0.022	0.030	0.000	0.000

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. Timepo 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. 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.

CC-008