

CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE
 (DIN EN 10204:2004E - ISO 10474.3.1.B)

Vendido a: PLESA ANAHUAC Y CIA. S.A. DE C.V.
 Sold to: PLESA ANAHUAC Y CIA. S.A. DE C.V.
 Especificaciones y Grados / Standard or Specification and Steel Grade: ASME B 16.9 - 2003 and ASME B 16.28 - 1994
 Seamless Fittings according to ASTM A 234-97, A 234-05a, NACE MR 01.75-2003
 Conform to ASME II Ed. 2001 ASME SA-234, Grade WPB

Pedido del Cliente No: 2097
 Customers Order No: 2097
 Dimensiones y tolerancias / Dimension and tolerances
 ASME B 16.9 - 2003 and ASME B 16.28 - 1994

Lista de Empaque: 8629
 Packing List:
 Fecha/Date: 7 de Noviembre de 2006
 Factura/Invoice: Bocas / Ends
 Bisalador / Bevelled ends

ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C			
				ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	S46693	528	CODO 3 X 90° R.I. CED-STD	324	480	36	112				
2	T29864	20	CODO 8 X 45° CED-XS	314	467	37	91				
3	T29389	100	CODO 6 X 90° R.I. CED-STD	328	468	35	122				
4	T28070	100	CODO 6 X 90° R.I. CED-STD	281	459	29	117				
5	T29388	60	CODO 6 X 45° CED-STD	326	478	40	105				
6	S37674	8	CODO 2 1/2 X 90° R.I. CED-STD	354	497	32	123				
7	S33415	1	CODO 2 1/2 X 90° R.I. CED-STD	347	500	51	150				
8	S45186	101	CODO 2 1/2 X 90° R.I. CED-STD	314	476	35	132				
9	S32202	1	CODO 2 1/2 X 90° R.I. CED-STD	344	497	50	122				
10	S33683	18	CODO 2 1/2 X 90° R.I. CED-STD	322	483	50	120				
11	S23880	7	CODO 2 1/2 X 90° R.I. CED-STD	343	504	40	123				

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	ANALISIS QUIMICO / CHEMICAL ANALYSIS											
			%C	%E	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	S46693	46693	0.313	0.180	0.700	0.012	0.001	0.270	0.050	0.034	0.010	0.021	0.001	0.002
HF	T29864	29864	0.300	0.170	0.660	0.006	0.000	0.280	0.050	0.068	0.030	0.040	0.000	0.000
HF	T29389	29389	0.290	0.160	0.690	0.009	0.002	0.280	0.030	0.056	0.024	0.030	0.000	0.000
HF	T28070	28070	0.310	0.170	0.670	0.009	0.003	0.290	0.060	0.084	0.042	0.040	0.000	0.000
HF	T29388	29388	0.290	0.160	0.690	0.009	0.002	0.280	0.030	0.056	0.024	0.030	0.000	0.000
HF	S37674	37674	0.309	0.170	0.750	0.012	0.001	0.300	0.030	0.035	0.020	0.027	0.001	0.001
HF	S33415	33415	0.339	0.180	0.830	0.014	0.001	0.300	0.050	0.065	0.020	0.033	0.001	0.001
HF	S45186	45186	0.330	0.190	0.740	0.013	0.002	0.280	0.040	0.042	0.020	0.021	0.001	0.001
HF	S32202	32202	0.329	0.190	0.700	0.010	0.001	0.300	0.040	0.044	0.020	0.021	0.001	0.001
HF	S33683	33683	0.316	0.170	0.790	0.015	0.001	0.310	0.040	0.040	0.010	0.018	0.001	0.001
HF	S23880	23880	0.340	0.200	0.730	0.014	0.001	0.290	0.040	0.050	0.020	0.040	0.001	0.001

Cartificamos 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°
 329514 6034704 6034763 6034745 6034763 05015300
 218551 316292 207960 218585 158102

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. Tiempo de permanencia 10'.
 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'.
 Inspección Dimensional Satisfactoria. Visual dimensional check Satisfactory.
 HF: FORMADO EN CALIENTE/HOT FORMED. CF: FORMADO EN FRIO/COLD FORMED.

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: ING. JOSE MARTINEZ MACIAS
 Quality Manager: CC-008