

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

Número:
 Number:
 23578

Página/Page:
 1 DE 1

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

Pedido del Cliente No:
 Customers Order No: 8417 - 8299 - 8141 - 8034

Lista de Empaque:
 Packing List: 12060

Fecha/Date:
 5 de Julio de 2010

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

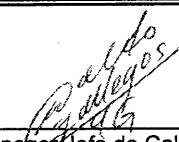
DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION				PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C				
ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HBW	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	T34687	1	CODO 16 X 45° CED-STD	317	494	35	93					
2	T45877	1	CODO 16 X 45° CED-STD	251	476	36	136					
3	T49269	1	CODO 16 X 45° CED-STD	346	507	43	122					
4	T10916	2	CODO 16 X 45° CED-STD	337	493	44	139					
5	T48552	1	CODO 16 X 45° CED-STD	357	512	43	122					
6	T49307	12	CODO 8 X 45° CED-XS	304	477	43	116					
7	T43130	6	CODO 16 X 90° R.L. CED-XS	321	500	44	120					
8	T49582	16	TEE 8 CED-STD	259	458	34	103					
9	S33021	100	CODO 3 X 45° CED-STD	317	483	31	135					
10	T49654	11	RED. CONC. 8 X 6 CED-STD	312	492	44	122					
11	T48082	22	CODO 6 X 90° R.L. CED-XS	304	476	41	120					

ANALISIS QUIMICO / CHEMICAL ANALYSIS														
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	T34687	34687	0.330	0.180	0.750	0.009	0.003	0.280	0.070	0.084	0.030	0.030	0.000	0.000
HF	T45877	45877	0.310	0.180	0.670	0.009	0.003	0.280	0.030	0.062	0.014	0.030	0.000	0.000
HF	T49269	49269	0.310	0.180	0.660	0.011	0.002	0.300	0.020	0.069	0.030	0.030	0.000	0.000
HF	T10916	10916	0.335	0.190	0.750	0.010	0.001	0.290	0.050	0.010	0.029	0.050	0.000	0.000
HF	T48552	48552	0.320	0.170	0.760	0.010	0.003	0.270	0.050	0.065	0.038	0.030	0.000	0.000
HF	T49307	49307	0.310	0.180	0.670	0.012	0.002	0.300	0.030	0.046	0.019	0.020	0.000	0.000
HF	T43130	43130	0.330	0.190	0.750	0.012	0.001	0.280	0.060	0.043	0.012	0.030	0.000	0.000
HF	T49582	49582	0.310	0.180	0.670	0.012	0.002	0.280	0.010	0.060	0.029	0.030	0.000	0.000
HF	S33021	33021	0.310	0.180	0.720	0.014	0.001	0.290	0.030	0.044	0.010	0.024	0.001	0.000
CF	T49654	49654	0.310	0.180	0.660	0.014	0.002	0.280	0.030	0.064	0.025	0.030	0.000	0.000
HF	T48082	48082	0.300	0.180	0.650	0.008	0.002	0.290	0.030	0.068	0.019	0.030	0.000	0.000

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°:
 7050465 10007041 10021274 03005803 10023804 10022724 9008083 10025048 473305 10028873 10015257
 "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'.
 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