

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

Número:
Number:

23193

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Vendido a: Sold to:	PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No:	7563 - 7566 - 7659 - 7684 - 7656	Lista de Empaque: Packing List:	11842	Fecha/Date:	15 de Febrero de 2010
Especificaciones y Grados / Standard or Specification and Steel Grade		Dimensiones y tolerancias / Dimension and tolerances			Factura/Invoice:		
Seamless Fittings according to ASTM A 234M WPB-07, NACE MR 01.75-2003					Bocas / Ends		
Conform to ASME II Ed. 2001 ASME SA-234M Grade WPB, NACE MR0103-2003		ASME B 16.9 - 2007 and ASME B 16.28 - 1994			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	T41223	10	CODO 8 X 45° CED-XS	271	463	38	120					
2	S33738	7	CODO 6 X 45° CED-STD	315	469	36	107					
3	T46926	43	CODO 6 X 45° CED-STD	355	496	39	117					
4	S32858	80	CODO 4 X 45° CED-STD	319	491	32	135					
5	T46857	15	RED. CONC. 10 X 6 CED-STD	327	499	41	126					
6	S32624	50	CODO 4 X 45° CED-XS	301	488	31	140					
7	T28071	7	RED. CONC. 5 X 4 CED-XS	321	473	38	110					
8	AC2	1	RED. CONC. 5 X 4 CED-XS	402	516	33	125					
9	LX4	1	RED. CONC. 5 X 4 CED-XS	322	487	33	121					
10	WX1	3	RED. CONC. 5 X 4 CED-XS	282	444	38	104					
11	FB5	3	RED. CONC. 5 X 4 CED-XS	303	477	43	136					

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	T41223	41223	0.310	0.180	0.650	0.012	0.002	0.270	0.050	0.070	0.009	0.030	0.000	0.000
HF	S33738	33738	0.320	0.180	0.750	0.011	0.001	0.280	0.020	0.049	0.010	0.014	0.001	0.001
HF	T46926	46926	0.300	0.170	0.670	0.014	0.002	0.280	0.040	0.057	0.024	0.030	0.000	0.000
HF	S32858	32858	0.310	0.170	0.730	0.012	0.001	0.280	0.040	0.060	0.010	0.028	0.001	0.000
CF	T46857	46857	0.310	0.180	0.660	0.012	0.004	0.290	0.050	0.080	0.029	0.040	0.000	0.000
HF	S32624	32624	0.340	0.200	0.740	0.012	0.003	0.290	0.040	0.036	0.010	0.031	0.001	0.000
CF	T28071	28071	0.320	0.180	0.660	0.011	0.003	0.280	0.070	0.087	0.045	0.040	0.000	0.000
CF	AC2	97332	0.286	0.143	0.746	0.011	0.003	0.275	0.047	0.046	0.022	0.003	0.006	0.000
CF	LX4	89859	0.286	0.185	0.514	0.001	0.001	0.350	0.024	0.106	0.010	0.013	0.002	0.000
CF	WX1	97766	0.313	0.178	0.690	0.006	0.001	0.260	0.050	0.080	0.009	0.050	0.000	0.000
CF	FB5	96344	0.310	0.180	0.650	0.008	0.002	0.270	0.040	0.080	0.028	0.040	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°: 8054913 479795 10006114 472674 9063904 470425 6014456 0 01007008 0 02007993

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°: 8054913 479795 10006114 472674 9063904 470425 6014456 0 01007008 0 02007993

"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".

<p>Notas:</p> <p>Formado en caliente a 620°C-980°C, enfriado al aire; Formado en frío normalizado a 940°C max.</p> <p>Tiempo de permanencia 10'.</p> <p>Inspección Dimensional: Satisfactoria.</p> <p>HF: FORMADO EN CALIENTE/HOT FORMED</p>	<p>Notes:</p> <p>Hot formed fittings in a range from 620°C to 980°C, cooled in still air, Cold formed normalized at 940°C max.</p> <p>Holding time 10'.</p> <p>Visual dimensional check: Satisfactory</p> <p>CF: FORMADO EN FRIO/COLD FORMED</p>	<p><i>Waldo Gallegos</i></p> <p>Quality Manager / Jefe de Calidad: ING. WALDO GALLEGOS GALVAN</p>	<p>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.</p> <p>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.</p>
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