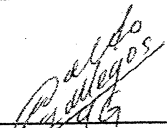


CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)	Número: Number:	Página/Page:
	22456	1 DE 1

Vendido a: Sold to:	PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No:	6329 - 6330	Lista de Empaque: Packing List:	11424	Fecha/Date:	12 de Mayo 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
12	S31681	53	CODO 3 X 90° R.L. CED-XS	273	443	33	109					
13	S28891	25	CODO 3 X 45° CED-STD	293	455	31	110					
14	S29506	24	CODO 2 X 45° CED-STD	293	467	30	122					
15	T41975	6	CODO 14 X 45° CED-STD	330	496	43	118					
16	S23813	1	CODO 6 X 90° R.L. CED-XS	324	486	42	97					
17	S28276	2	CODO 6 X 90° R.L. CED-XS	326	482	33	89					
18	S21572	2	CODO 6 X 90° R.L. CED-XS	329	455	40	94					
19	T42416	15	CODO 6 X 90° R.L. CED-XS	306	470	38	116					
20	T39645	7	CODO 10 X 90° R.L. CED-XS	288	480	36	111					
21	T42633	1	CODO 10 X 90° R.L. CED-XS	316	476	42	118					
22	S22585	5	CODO 2 1/2 X 45° CED-STD	331	485	30	125					

ANALISIS QUIMICO / CHEMICAL ANALYSIS														Certificamos que los resultados de los Analisis 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°: 461066 440948 458002 8062571 400531 433163 373324 8068557 8050608 9008315 386255	
PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V		
HF	S31681	31681	0.320	0.190	0.730	0.007	0.001	0.260	0.020	0.020	0.010	0.022	0.001	0.001	
HF	S28891	28891	0.340	0.200	0.750	0.010	0.002	0.280	0.030	0.029	0.010	0.033	0.001	0.000	
HF	S29506	29506	0.320	0.180	0.730	0.008	0.002	0.300	0.040	0.051	0.030	0.030	0.003	0.001	
HF	T41975	41975	0.300	0.170	0.680	0.008	0.001	0.270	0.050	0.069	0.019	0.030	0.000	0.000	
HF	S23813	23813	0.340	0.200	0.720	0.015	0.002	0.270	0.050	0.059	0.010	0.027	0.001	0.000	
HF	S28276	28276	0.330	0.190	0.720	0.008	0.001	0.270	0.040	0.029	0.020	0.029	0.001	0.001	
HF	S21572	21572	0.320	0.190	0.700	0.009	0.002	0.280	0.030	0.029	0.010	0.020	0.001	0.002	
HF	T42416	42416	0.310	0.170	0.700	0.012	0.001	0.280	0.040	0.060	0.023	0.040	0.000	0.000	
HF	T39645	39645	0.310	0.180	0.680	0.010	0.002	0.280	0.050	0.052	0.008	0.030	0.000	0.000	
HF	T42633	42633	0.300	0.170	0.690	0.012	0.003	0.270	0.050	0.053	0.018	0.030	0.000	0.000	
HF	S22585	22585	0.310	0.170	0.760	0.012	0.001	0.270	0.040	0.026	0.010	0.022	0.001	0.002	

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
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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.