


CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)	Numero: Number: 24542	Pagina/Page: 1 DE 1
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Vendido a: Sold to: PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No: 10225 - 10081 -	Lista de Empaque: Packing List: 12640	Fecha/Date: 25 de Abril de 2011
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234 WPB-07, NACE MR 01.75-2003 Conform to ASME II Ed. 2001 ASME SA-234, 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	S42357	6	CODO 6 X 90° R.C. CED-STD	284	473	37	130					
2	S42141	19	CODO 6 X 90° R.C. CED-STD	313	504	34	142					
3	T52004	12	TEE 8 CED-STD	323	481	32	100					
4	T50962	2	TEE 8 CED-STD	288	477	31	103					
5	T50961	6	TEE 8 CED-STD	282	463	37	105					
6	T51816	60	TEE 4 CED-STD	308	486	40	122					
7	S44855	40	CODO 4 X 90° R.C. CED-XS	300	468	37	114					
8	S25296	1	CODO 1 1/2 X 45° CED-STD	349	491	35	133					
9	S31050	35	CODO 1 1/2 X 45° CED-STD	367	534	32	130					
10	T50526	6	TEE RED. 8 X 4 CED-XS	318	487	43	120					

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°: 10053977 10058592 10060053 10041216 10042750 11006318 314084 165671 479680 10051540 "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".
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	S42357	42357	0.330	0.190	0.750	0.012	0.001	0.310	0.030	0.040	0.010	0.019	0.002	0.002	
HF	S42141	42141	0.350	0.200	0.810	0.010	0.001	0.330	0.030	0.046	0.010	0.029	0.002	0.002	
HF	T52004	52004	0.320	0.180	0.680	0.015	0.002	0.290	0.060	0.054	0.024	0.040	0.000	0.000	
HF	T50962	50962	0.310	0.180	0.670	0.012	0.001	0.270	0.020	0.047	0.028	0.040	0.000	0.000	
HF	T50961	50961	0.310	0.180	0.670	0.012	0.003	0.270	0.030	0.056	0.027	0.040	0.000	0.000	
HF	T51816	51816	0.320	0.180	0.680	0.008	0.001	0.300	0.060	0.065	0.026	0.040	0.000	0.000	
HF	S44855	44855	0.330	0.190	0.740	0.009	0.002	0.290	0.030	0.041	0.020	0.018	0.001	0.001	
HF	S25296	25296	0.324	0.180	0.790	0.010	0.002	0.290	0.030	0.040	0.010	0.020	0.001	0.001	
HF	S31050	31050	0.330	0.190	0.760	0.007	0.002	0.270	0.030	0.023	0.010	0.013	0.001	0.000	
HF	T50526	50526	0.310	0.180	0.670	0.013	0.002	0.280	0.050	0.059	0.019	0.030	0.000	0.000	

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.
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