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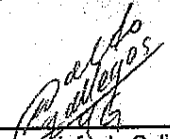
CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)		Numero: Number:	Pagina/Page:
		29237	1
Vendido a: Sold to:	PLESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No: Customers Order No:	19632 - 19849 - 19265 -
		Lista de Empaque: Packing List:	15213
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234 WPB-13e Conform to ASME II Ed. 2013 ASME SA-234, Grade WPB		Dimensiones y tolerancias / Dimension and tolerances ASME B 16.9 - 2012	
		Fecha/Date: 10 de diciembre de 2014	
		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	T6971	18	CODO 6 X 90° R.C. CED-STD	284	477	40	154					
2	S28476	20	CODO 1 1/2 X 45° CED-XS	343	485	47	135					
3	S29337	13	CODO 1 1/2 X 45° CED-XS	318	473	38	109					
4	S44801	35	CODO 1 1/2 X 45° CED-STD	381	516	48	116					
5	T5007	60	CODO 3 X 90° R.C. CED-STD	362	518	39	154					
6	T28943	39	CODO 1 X 45° CED-STD	272	437	52	110					
7	T8434	25	CODO 2 1/2 X 45° CED-XS	338	493	38	130					
8	S36056	40	CODO 2 X 90° R.C. CED-XS	326	491	31	120					
9	T72649	3	TEE 12 CED-40	276	461	36	152					

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	T6971	6971	0.310	0.180	0.700	0.005	0.002	0.290	0.020	0.039	0.007	0.020	0.000	0.000
HF	S28476	28476	0.340	0.190	0.770	0.014	0.002	0.280	0.050	0.050	0.030	0.084	0.001	0.002
HF	S29337	29337	0.320	0.180	0.730	0.013	0.001	0.290	0.050	0.040	0.020	0.027	0.002	0.001
HF	S44801	44801	0.310	0.160	0.830	0.012	0.001	0.280	0.040	0.050	0.010	0.035	0.001	0.002
HF	T5007	5007	0.320	0.180	0.780	0.005	0.002	0.310	0.020	0.042	0.004	0.020	0.000	0.000
HF	T28943	28943	0.300	0.150	0.540	0.001	0.003	0.180	0.050	0.068	0.028	0.040	0.000	0.000
HF	T8434	8434	0.310	0.180	0.690	0.006	0.001	0.290	0.040	0.032	0.009	0.020	0.000	0.000
HF	S36056	36056	0.330	0.180	0.760	0.010	0.001	0.280	0.050	0.050	0.020	0.026	0.001	0.001
HF	T72649	72649	0.310	0.180	0.660	0.006	0.001	0.280	0.070	0.069	0.015	0.050	0.000	0.000

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°:
 14028222 13041532 14015052 13035141 12084850 14847
 14040494 14055780 14044748

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. MATERIAL ACCORDING TO NACE MR0175 / ISO 15156-1, 2009 AND NACE MR0103, 2012 ONLY HARDNESS	
<div style="border: 1px solid black; padding: 2px; display: inline-block;">FOR03161</div>	