

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204:2004E - ISO 10474 3.1.B)		Numero: Number: 21242	Pagina/Page: 1 DE 1
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Vendido a: PROVEEDORA DE MATERIALES ANKER, S.A. Sold to: DE C.V.	Pedido del Cliente No: 5297 - 5275 - 5280 - Customers Order No:	Lista de Empaque: Packing List: 10912	Fecha/Date: 10 de Octubre de 2008
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234"M" WPB-97, A234"M" WPB-05a, NACE MR 01.75-2003 Conform to ASME II Ed. 2001 ASME SA-234"M", Grade WPB, NACE MR0103-2003		Dimensiones y tolerancias / Dimension and tolerances ASME B 16.9 - 2003 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	T40516	12	CODO 14 X 45° CED-STD	322	503	33	99					
2	T41352	40	CODO 10 X 90° R.L. CED-STD	307	489	37	116					
3	T41467	57	CODO 8 X 90° R.L. CED-STD	326	503	34	118					
4	T41466	3	CODO 8 X 90° R.L. CED-STD	276	471	39	109					
5	T37205	6	TEE RED. 8 X 4 CED-STD	308	491	42	94					
6	T41272	32	TEE RED. 8 X 4 CED-STD	289	498	32	105					

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	T40516	40516	0.310	0.180	0.680	0.009	0.001	0.280	0.050	0.066	0.008	0.030	0.000	0.000
HF	T41352	41352	0.300	0.170	0.680	0.010	0.002	0.290	0.030	0.054	0.008	0.030	0.000	0.000
HF	T41467	41467	0.310	0.180	0.670	0.010	0.001	0.280	0.040	0.061	0.005	0.030	0.000	0.000
HF	T41466	41466	0.310	0.180	0.670	0.010	0.002	0.280	0.040	0.061	0.006	0.030	0.000	0.000
HF	T37205	37205	0.310	0.170	0.670	0.010	0.003	0.270	0.050	0.055	0.050	0.030	0.000	0.000
HF	T41272	41272	0.340	0.190	0.820	0.017	0.002	0.310	0.050	0.040	0.010	0.030	0.000	0.000

Certificamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas 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°: 8039349 8048839 8054635 8052359 7060187 8050726

"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 QF: 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.