


CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204 3.1.B - ISO 10474 3.1.B)										Numero: Number:	Pagina/Page:				
										15229	1 DE 1				
Vendido a: Sold to: PROVEEDORA DE MATERIALES AN CER					Pedido del Cliente No: Customers Order No: 4760 7833 4603					Lista de Empaque: Packing List: 7894		Fecha/Date: 1 de Diciembre de 2005			
Especificaciones y Grados / Standard or Specification and Steel Grade Seamless Fittings according to ASTM A 234-97, A234-02 / ASME A/SA 234 WPB - NACE MR 01.75-2003 - Conform to ASME II Ed. 2001					Dimensiones y tolerancias / Dimension and tolerances ASME B 16.9 and ASME B 16.28 edition 2001					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	CANTIDA QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules			
1	MC5	100	ELLS 14 X 45 SCH-STD	254	432	60	124								
2	ON5	34	ELLS 2 X 90 S.R. SCH-STD	343	493	36	126								
3	S37368	250	ELLS 2 X 90 S.R. SCH-STD	324	499	21	114								
4	S33132	40	ELLS 3 X 90 L.R. SCH-STD	339	482	35	102								
5	S38031	188	ELLS 3 X 90 L.R. SCH-STD	334	492	35	113								
6	T22751	6	CONC. RED. 14 X 10 SCH-STD	311	486	33	118								
7	S38903	200	CONC. RED. 3 X 2 SCH-STD	345	494	38	140								
8	T15572	11	CONC. RED. 5 X 3 SCH-STD	330	486	40	137								
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	Certificamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas son verdaderos o una copia fiel de los certificados enviadas por el Fabricante y/o el proveedor de Materia Prima conforme ASTM A106 Grade 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 certs conform to ASTM A106 Grade B N°. T-1128/1 158105 255052 219017 257247 05013501 261372 04004236 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.
HF	MC5	21646	0.257	0.150	0.540	0.008	0.001	0.209	0.039	0.057	0.019	0.028	0.001	0.000	
HF	ON5	24041	0.319	0.180	0.750	0.009	0.002	0.310	0.020	0.050	0.020	0.040	0.001	0.001	
HF	S37368	37368	0.325	0.180	0.750	0.011	0.001	0.300	0.030	0.025	0.050	0.028	0.001	0.001	
HF	S33132	33132	0.309	0.170	0.740	0.012	0.002	0.270	0.030	0.000	0.040	0.017	0.001	0.001	
HF	S38031	38031	0.322	0.190	0.730	0.011	0.001	0.280	0.020	0.037	0.010	0.018	0.001	0.001	
CF	T22751	22751	0.328	0.180	0.680	0.015	0.002	0.270	0.090	0.077	0.043	0.040	0.000	0.000	
CF	S38903	38903	0.324	0.180	0.770	0.009	0.002	0.280	0.030	0.028	0.030	0.021	0.001	0.001	
CF	T15572	15572	0.310	0.170	0.690	0.009	0.003	0.280	0.050	0.094	0.028	0.050	0.000	0.000	
Notas:			Notas:												
Formado en caliente a 780°C-940°C, enfriado al aire.			Hot formed fittings in a range from 780°C to 940°C, cooled in still air.												
Formado en frío normalizado a 940°C máx.			Cold formed normalized at 940°C max.												
Tiempo de permanencia 10'.			Holding time 10'.												
Inspección Dimensional Satisfactoria			Visual dimensional check Satisfactory												
IF FORMADO EN CALIENTE/HOT FORMED			CF FORMADO EN FRIO/COLD FORMED												
Jefe de Aseguramiento de Calidad: Quality Assurance Coordinator										 ING. JOSE MARTINEZ MACIAS		CC-008			