

CERTIFICADO DE CALIDAD INSPECTION CERTIFICATE (DIN EN 10204 3.1.B - ISO 10474 3.1.B)		Numero: Number:	Página/Page:
		15629	1 DE 1
Vendido a: Sold to:	FLESA ANAHUAC	Lista de Empaque: Packing List:	8049
Fecha/Date:	21 de Febrero de 2006	Factura/Invoice: Bocas / Ends Biselado / Bevelled ends	
Especificaciones y Grados / Standard or Specification and Steel Grade			
Seamless Fittings according to ASTM A 234-97, A234-02 / ASME AISA 234 WPB -			
NACE MR 01.75-2003 - Conform to ASME II Ed. 2001			
Pedido del Cliente No: Customers Order No:		1019 905	
Dimensiones y tolerancias / Dimension and tolerances			
ASME B 16.9 and ASME B 16.28 edition 2001			

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	T36460	20	ELLS 6 X 90 S.R. SCH-XH	310	460	36	137					
2	T25112	10	CONC. RED. 12 X 10 SCH-STD	345	494	43	126					
3	T21535	30	CONC. RED. 8 X 6 SCH-STD	289	482	34	116					

ANALISIS QUIMICO / CHEMICAL ANALYSIS														
PROCESO PROCESS	COLADA HEAT CODE	COLADA/MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T36460	36460	0.323	0.180	0.750	0.011	0.001	0.320	0.040	0.033	0.030	0.021	0.001	0.001
CF	T25112	25112	0.333	0.190	0.690	0.009	0.001	0.290	0.070	0.074	0.034	0.030	0.000	0.000
CF	T21535	21535	0.318	0.180	0.670	0.008	0.002	0.280	0.060	0.069	0.040	0.030	0.000	0.000

Centificamos 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 conforme ASTM A106GradeB 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°.

05015935 05024739 05006231

"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".

Jefe de Aseguramiento de Calidad:
 Quality Assurance Coordinator

 ING. JOSE-MARTINEZ MACIAS
 CC-008

Notes:
 Hot formed fittings in a range from 780°C to 940°C, cooled in still air.
 Cold formed normalized at 940°C max.
 Holding time 10'
 Visual dimensional check: Satisfactory
 HF: FORMADO EN CALIENTE/HOT FORMED
 CF: FORMADO EN FRIOCOLD FORMED