

**CERTIFICADO DE CALIDAD
 INSPECTION CERTIFICATE**
 (DIN EN 10204 3.1.B - ISO 10474 3.1.B)

Numero:
 Number: 16252

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Vendido a: PIESA ANAHUAC
 Sold to:

Pedido del Cliente No: 1477
 Customers Order No:

Lista de Empaque: 8305
 Packing List:

Fecha/Date: 30 de Junio de 2006

Especificaciones y Grados / Standard or Specification and Steel Grade
 Seamless Fittings according to ASTM A 234-97, A234-04 / ASME A5A 234 WPB -
 NACE MR 01-75-2003 - Conform to ASME II Ed. 2001

Dimensiones y tolerancias / Dimension and tolerances
 ASME B 16.9-01 and ASME B 16.28 edition 1994

Factura/Invoice: Bocas / Ends
 Biselado / Bevelled ends

DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION

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	S33411	242	ELLS 3 X 90 L. R. SCH-STD	354	495	50	116					
2	S43741	22	ELLS 3 X 90 L. R. SCH-STD	337	520	35	116					
3	T28615	40	ELLS 6 X 90 L. R. SCH-XH	319	460	42	109					
4	T27030	10	CONC. RED. 14 X 12 SCH-STD	307	478	45	106					

ANALISIS QUIMICO / CHEMICAL ANALYSIS

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C	%E	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	S33411	33411	0.324	0.180	0.730	0.011	0.002	0.300	0.080	0.034	0.010	0.024	0.001	0.001
HF	S43741	43741	0.337	0.190	0.760	0.015	0.002	0.300	0.040	0.060	0.030	0.035	0.002	0.001
HF	T28615	28615	0.305	0.170	0.680	0.007	0.002	0.280	0.040	0.095	0.027	0.030	0.000	0.000
CF	T27030	27030	0.322	0.180	0.700	0.011	0.002	0.300	0.050	0.084	0.032	0.050	0.000	0.000

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.

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.

Certificamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas son verdaderos a una copia fiel de los certificados enviados por el Fabricante.
 Yo el proveedor de Materia Prima (Tuberia) conforme ASTM A106/Grades 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 (Pipe) cents conform to ASTM A106 Grade B N°.

218557 304324 06014480 6003925

Notes:

Formado en caliente a 750°C-940°C, enfriado al aire. Formado en frío normalizado a 940°C máx.
 Tiempo de permanencia 10".
 Inspección Dimensional Satisfactoria.
 HF: FORMADO EN CALIENTE/HOT FORMED

Notes:

Hot formed fittings in a range from 750°C to 940°C, cooled in still air.
 Cold formed normalized at 940°C máx.
 Holding time 10".
 Visual dimensional check Satisfactory.
 CF: FORMADO EN FRIO/COLD FORMED

Jefe de Aseguramiento de Calidad:
 Quality Assurance Coordinator

ING. JOSE MARTINEZ MACIAS

CC-008