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

Vendido a: **PLESA ANAHUAC** Pedido del Cliente No: **1304** Fecha/Date: **20 de Abril de 2006**
 Solid to: Customers Order No: Factura/Invoice: **8159**
 Especificaciones y Grados / Standard or Specification and Steel Grade Dimensiones y tolerancias / Dimension and tolerances
 Seamless fittings according to ASTM A 334-97, A234-02 / ASME BSA 334 WPB ASME B 16.9 and ASME B 16.28 edition 2001
 NACE MR 01.75-2003 - Conform to ASME III Ed. 2001 Biselado / Bevelled ends

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Lista de Empaque: **8159**
 Packing List:

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	T12167	1	ELLS 10 X 90 L.R. SCH-20	323	491	46	144					
2	T27436	36	ELLS 12 X 45 SCH-STD	316	473	44	121					
3	T24282	456	ELLS 4 X 90 L.R. SCH-STD	303	480	33	106					
4	T26889	60	ELLS 6 X 45 SCH-STD	287	441	40	112					
5	T26889	100	ELLS 6 X 90 L.R. SCH-STD	287	411	40	112					
6	T25752	31	ELLS 8 X 45 SCH-STD	306	478	42	116					
7	T27420	9	ELLS 8 X 45 SCH-STD	293	473	46	116					
8	T27420	120	ELLS 8 X 90 L.R. SCH-STD	293	473	46	116					
9	T23932	20	CONC. RED. 12 X 6 SCH-STD	309	486	46	128					
10	T27030	10	CONC. RED. 14 X 12 SCH-STD	307	478	45	106					
11	T26166	27	TEE 10 SCH-STD	325	490	34	123					

ANALISIS QUIMICO / CHEMICAL ANALYSIS											
PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C	%E	%Mn	%P	%S	%Si	%Cu	%Ni	%Nb
HF	T12167	12167	0.327	0.190	0.690	0.001	0.001	0.280	0.077	0.040	0.000
HF	T27436	27436	0.303	0.160	0.680	0.011	0.001	0.290	0.081	0.040	0.000
HF	T24282	24282	0.301	0.170	0.660	0.008	0.001	0.280	0.060	0.030	0.000
HF	T26889	26889	0.313	0.170	0.680	0.010	0.001	0.280	0.079	0.050	0.000
HF	T26889	26889	0.313	0.170	0.680	0.010	0.001	0.280	0.079	0.050	0.000
HF	T25752	25752	0.315	0.180	0.680	0.008	0.002	0.280	0.077	0.030	0.000
HF	T27420	27420	0.322	0.180	0.690	0.012	0.003	0.028	0.079	0.040	0.000
HF	T27420	27420	0.322	0.180	0.690	0.012	0.003	0.028	0.079	0.040	0.000
CF	T23932	23932	0.324	0.180	0.740	0.010	0.001	0.270	0.062	0.030	0.000
CF	T27030	27030	0.322	0.180	0.700	0.011	0.002	0.300	0.084	0.050	0.000
CF	T26166	26166	0.351	0.190	0.810	0.011	0.001	0.270	0.088	0.050	0.000

Notas: Formado en caliente a 780°C-940°C, enfriado al Hot formed fittings in a range from 780°C to 940°C, cooled in still air.
 en frío. Formado en frío norma ASME a 940°C max Cold formed normalized at 940°C max
 Tiempo de permanencia 10' Holding time 10'
 Inspección Dimensional/ Substancia: Visual dimensional check/ Substancia
 HF FORMADO EN CALIENTE/NOT FORMED CF FORMADO EN FRIO/COLD FORMED

The Products described herein were produced in accordance with the above referenced specification and are identified with the "P" which is permanently marked on each fitting.

Jefe de Aseguramiento de Calidad:
 Quality Assurance Coordinator

ING. JOSE MARTINEZ MACIAS

CC-008