

Vendido a: **PLESA ANAHUAC Y CIA. S.A. DE C.V.** Pedido del Cliente No: **2565 - 2570 - 2574 -** Lista de Empaque: **8899** Fecha/Date: **20 de Febrero de 2007**

Sold to: **PLESA ANAHUAC Y CIA. S.A. DE C.V.** Customers Order No: **2565 - 2570 - 2574 -** Dimensiones y tolerancias / Dimension and tolerances **ASME B 16.9 - 2003 and ASME B 16.28 - 1994** Factura/Invoice: **Bocas / Ends** Biselado / Bevelled ends

Specificaciones y Grados / Standard or Specification and Steel Grade **ASME B 16.9 - 2003 and ASME B 16.28 - 1994**

ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C			
				ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	T29863	60	CODO 6 X 45° CED-XS	306	468	40	86				
2	T29862	200	CODO 6 X 90° R. I. CED-STD.	312	475	38	86				
3	S45664	50	CODO 2 X 90° R. I. CED-XS	309	496	34	130				
4	S45663	100	CODO 2 X 90° R. I. CED-STD	344	487	34	114				
5	T28738	8	CODO 10 X 90° R. I. CED-80	337	474	39	115				
6	T29032	1	CODO 10 X 90° R. I. CED-80	317	464	34	92				
7	S60750	8	CODO 4 X 45° CED-XS	480	503	30	126				
8	S48650	52	CODO 4 X 45° CED-XS	332	478	36	107				
9	S38130	30	CODO 1 1/2 X 90° R. C. CED-STD	347	489	39	118				
10	T28028	50	CODO 1 X 90° R. I. CED-XS	302	430	53	114				

PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	ANALISIS QUIMICO / CHEMICAL ANALYSIS											
			%C.E.	%C	%Mn	%P	%S	%SI	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T29863	29863	0.300	0.170	0.660	0.006	0.001	0.270	0.040	0.070	0.024	0.030	0.000	0.000
HF	T29862	29862	0.310	0.170	0.670	0.007	0.002	0.280	0.070	0.074	0.034	0.040	0.000	0.000
HF	S45664	45664	0.341	0.200	0.770	0.010	0.001	0.300	0.030	0.022	0.020	0.017	0.001	0.002
HF	S45663	45663	0.314	0.180	0.730	0.009	0.001	0.300	0.030	0.022	0.020	0.017	0.001	0.002
HF	T28738	28738	0.300	0.170	0.660	0.009	0.001	0.290	0.040	0.076	0.022	0.030	0.000	0.000
HF	T29032	29032	0.320	0.180	0.670	0.009	0.002	0.280	0.060	0.074	0.043	0.040	0.000	0.000
HF	S60750	60750	0.321	0.170	0.760	0.011	0.003	0.280	0.050	0.070	0.030	0.042	0.002	0.001
HF	S48650	48650	0.332	0.190	0.750	0.010	0.001	0.300	0.050	0.040	0.010	0.028	0.001	0.001
HF	S38130	38130	0.313	0.180	0.710	0.009	0.001	0.280	0.030	0.043	0.020	0.022	0.001	0.001
HF	T28028	28028	0.270	0.150	0.580	0.011	0.001	0.200	0.040	0.091	0.030	0.047	0.001	0.000

Notes: Formado en caliente a 620°C-800°C, enfriado al aire; Formado en frío normalizado a 940°C max. Cold formed fittings in a range from 620°C to 980°C, cooled in still air. Holding time 10'. Visual dimensional check. Satisfactory.

Notes: 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. Jefe de Calidad: **ING. JOSE MARTINEZ MACIAS** CC-008

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°. 6034768 6040533 321679 321679 6014090 6017943 2079339 346340 258860 T-4961.1

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.