

Vendido a:	PLEESA ANAHUAC Y CIA. S.A. DE C.V.	Pedido del Cliente No:	3333 - 3385	Numero:	18559	Pagina/Page:	1 DE 1
Sold to:		Customers Order No:		Lista de Empaque:	9513	Fecha/Date:	17 de Agosto de 2007
Especificaciones y Grados / Standard or Specification and Steel Grade	ASME B 16.9 - 2003 and ASME B 16.28 - 1994	Dimensiones y tolerancias / Dimension and tolerances		Factural/Invoice:	Bocas / Ends		
Seamless Fittings according to ASTM A 234"™ WPB-97, A234"™ WPB-05a, NACE MR 01.75-2003				Packing List:			
Conform to ASME II Ed. 2001 ASME SA-234"™, Grade WPB.							

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. RUPATURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HB	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules
1	T29047	1	CODO 16 X 90° R.I. CED-STD	387	502	32	124			
2	T29417	1	CODO 16 X 90° R.I. CED-STD	334	487	37	111			
3	T33853	4	CODO 16 X 90° R.I. CED-STD	368	500	35	90			
4	T33446	3	CODO 16 X 90° R.I. CED-STD	343	489	36	90			
5	S45280	28	CODO 3 X 90° R.C. CED-XS	323	485	35	123			
6	S22489	10	CODO 6 X 90° R.C. CED-XS	275	480	38	156			
7	S44855	24	CODO 4 X 90° R.C. CED-XS	300	468	37	114			
8	HV5	3	TAPON 10 CED-XS	305	459	38	143			
9	T32569	16	CODO 10 X 90° R.I. CED-80	304	506	44	122			
10	S45663	20	CODO 2 X 90° R.C. CED-STD	344	487	34	114			
11	T33433	2	CODO 14 X 45° CED-40	347	500	34	84			

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
HF	T29047	29047	0.320	0.170	0.730	0.009	0.002	0.270	0.060	0.092	0.035	0.050	0.000	0.000
HF	T29417	29417	0.300	0.170	0.670	0.009	0.001	0.260	0.040	0.073	0.032	0.030	0.000	0.000
HF	T33853	33853	0.310	0.180	0.680	0.008	0.003	0.270	0.040	0.063	0.030	0.030	0.000	0.000
HF	T33446	33446	0.310	0.170	0.670	0.009	0.001	0.280	0.060	0.060	0.038	0.050	0.000	0.000
HF	S45280	45280	0.330	0.180	0.790	0.010	0.001	0.300	0.040	0.038	0.030	0.021	0.001	0.002
HF	S22489	22489	0.340	0.200	0.730	0.011	0.002	0.270	0.050	0.032	0.020	0.025	0.001	0.001
HF	S44855	44855	0.335	0.200	0.730	0.009	0.001	0.280	0.030	0.037	0.020	0.016	0.001	0.001
HF	HV5	280173	0.299	0.170	0.770	0.009	0.008	0.156	0.000	0.000	0.000	0.001	0.001	0.001
HF	T32569	32569	0.320	0.180	0.680	0.011	0.001	0.280	0.050	0.077	0.031	0.030	0.000	0.000
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	T33433	33433	0.310	0.170	0.690	0.011	0.004	0.280	0.050	0.026	0.020	0.030	0.000	0.000

Notes:
Hot formed fittings in a range from 620°C to 980°C, cooled in still air.
Cold formed normalized at 940°C max.
Holding time 10'.
Visual dimensional check: Satisfactory

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:
Quality Manager: