

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

Vendido a: PLESA ANAHUAC
Sold to: PLESA ANAHUAC
Pedido del Cliente No: 100000789, VAR
Customers Order No: 100000789, VAR
Dimensiones y tolerancias / Dimension and tolerances
 ASME B 16.9 and ASME B 16.28 edition 2001
Fecha/Date: 25 de Febrero de 2005
Factura/Invoice: Bocsos / Ends
Lista de Empaque: 7359
Packing List:

Numero: 13625
Page/Página: 1 DE 1

DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION

| ART. ITEM | COLADA HEAT CODE | CANTIDA QUANTITY | DESCRIPCION / DESCRIPTION | ESF. CEDENCIA YIELD STRENGTH (Mpa) | ESF. RUPATURA TENSILE STRENGTH (Mpa) | ELONG. %2" | DUREZA HARDNESS HB |
|-----------|------------------|------------------|---------------------------|------------------------------------|--------------------------------------|------------|--------------------|
| 1 | S31705 | 38 | RED CONC 3 X 2 1/2 STD | 347 | 505 | 51 | 150 |
| 2 | S32237 | 12 | RED CONC 3 X 2 1/2 STD | 339 | 509 | 50 | 140 |
| 3 | T19194 | 50 | RED CONC 6 X 4 STD | 294 | 459 | 44 | 110 |
| 4 | T18119 | 30 | RED CONC 8 X 6 STD | 319 | 486 | 43 | 103 |
| 5 | T15572 | 56 | TEE 4 STD | 330 | 486 | 40 | 137 |
| 6 | T17397 | 57 | TEE 4 STD | 280 | 468 | 42 | 139 |

PRUEBAS MECANICAS / MECHANICAL TEST

| DIMENSIONES SAMPLE DIM mm | 1 | 2 | 3 | PROMEDIO AVERAGE |
|---------------------------|--------|--------|--------|------------------|
| Joules | Joules | Joules | Joules | Joules |

ANALISIS QUIMICO / CHEMICAL ANALYSIS

| PROCESO PROCESS | COLADA HEAT CODE | COLAD/AHEAT M.P./MOTHER PIPE | %C | %E | %Mn | %P | %S | %SI | %Cr | %Cu | %Mo | %Ni | %V | %Nb |
|-----------------|------------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| CF | S31705 | 31705 | 0.333 | 0.190 | 0.770 | 0.013 | 0.001 | 0.290 | 0.030 | 0.049 | 0.020 | 0.021 | 0.001 | 0.001 |
| CF | S32237 | 32237 | 0.341 | 0.190 | 0.810 | 0.010 | 0.001 | 0.300 | 0.030 | 0.056 | 0.020 | 0.021 | 0.002 | 0.001 |
| CF | T19194 | 19194 | 0.308 | 0.170 | 0.670 | 0.008 | 0.003 | 0.260 | 0.050 | 0.064 | 0.045 | 0.040 | 0.000 | 0.000 |
| CF | T18119 | 18119 | 0.319 | 0.180 | 0.680 | 0.013 | 0.001 | 0.260 | 0.060 | 0.062 | 0.036 | 0.030 | 0.000 | 0.000 |
| CF | T15572 | 15572 | 0.310 | 0.170 | 0.690 | 0.009 | 0.003 | 0.280 | 0.050 | 0.094 | 0.028 | 0.050 | 0.000 | 0.000 |
| CF | T17397 | 7AMSA | 0.311 | 0.180 | 0.680 | 0.018 | 0.003 | 0.290 | 0.040 | 0.062 | 0.020 | 0.020 | 0.000 | 0.000 |

Certificamos que los resultados de los Análisis Químicos y Pruebas Mecánicas 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 cuts conform to ASTM A106 Grade B N°.
 201142 207936 04026477
 04020123 04004236 04018979

Notes:
 Formado en caliente a 780°C-840°C, enfriado al aire.
 Hot formed in air in a range from 780°C to 840°C, cooled in still air.
 Formado en frío normalizado a 940°C máx.
 Cold formed normalized at 940°C máx.
 Tiempo de permanencia 10'.
 Holding time 10'.
 Inspección Dimensional Satisfactoria.
 Visual dimensional check Satisfactory.
 HE FORMADO EN CALIENTE/HOT FORMED
 CF FORMADO EN FRIJO/COLD FORMED

Jefe de Aseguramiento de Calidad:
Quality Assurance Coordinator

ING. JOSE MARTINEZ MACIAS

CC-008