

FLM-005-7

PROCARSA, S.A. DE C.V.

CERTIFI DO DE CALIDAD  
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

|                       |          |        |                |
|-----------------------|----------|--------|----------------|
| CLIENTE:              | TRICOTA  | NUMERO | PTM-50705-2002 |
| CUSTOMER:             |          | FECHA  | ENERO 10, 2002 |
| pedido cliente / P.O. | 8075     | DATE   |                |
| pedido interno / I.O. |          |        |                |
| partida(s)            | 20766-20 |        |                |
| ITEMS                 |          |        |                |

DIAMETRO 12 3/4" ESPESOR DE PARED 0.219" GRADO: ASTM A53-B PRESION HIDROSTATICA: 720 PSI

PRUEBAS DE TENSION


CHEMICAL ANALYSES PERCENT WEIGHT

| NUM. PROBE / DESCRIPTION | CORADA / HEAT | LIMITE ELASTICO / YIELD STRENGTH (PSI) | ULTIMA TENSION / TENSILE STRENGTH (PSI) | % ELONG. / % ELONG. | LEGIT / LGT. / V.S.T.S. | C     | Min  | P     | S     | Cb | V | TI | Si    | Cu    | Al    | Ca     | Cr    | Ni    | Mo | N      | Ceq |
|--------------------------|---------------|--|---|---------------------|-------------------------|-------|------|-------|-------|----|---|----|-------|-------|-------|--------|-------|-------|----|--------|-----|
| 6-14 TC                  | 210914        | 56 657                                 | 68 907                                  | 36                  | 0.82                    | 0.143 | 0.93 | 0.014 | 0.005 | -  | - | -  | 0.187 | 0.024 | 0.027 | 0.0036 | 0.021 | 0.033 | -  | 0.0070 |     |
| 7-28 TS                  | 210915        | 55 640                                 | 67 370                                  | 39                  | 0.83                    | 0.136 | 0.90 | 0.013 | 0.006 | -  | - | -  | 0.194 | 0.018 | 0.039 | 0.0038 | 0.017 | 0.031 | -  | 0.0051 |     |
| 1-12 TC                  | 210916        | 53 316                                 | 69 768                                  | 40                  | 0.76                    | 0.150 | 0.92 | 0.015 | 0.006 | -  | - | -  | 0.190 | 0.029 | 0.036 | 0.0031 | 0.024 | 0.034 | -  | 0.0060 |     |
|                          |               |  | 75 629                                  |                     |                         |       |      |       |       |    |   |    |       |       |       |        |       |       |    |        |     |

CERTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

WE CERTIFY THE PIPE ABOVE MENTIONED ACCOMPLISH AND HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATIONS:

ASTM

  
 ING. FERNANDO OSORIO PEREZ  
 GERENTE DE ASEGURAMIENTO DE CALIDAD  
 QUALITY ASSURANCE MANAGER