

# CERTIFICADO PATRON DE CND

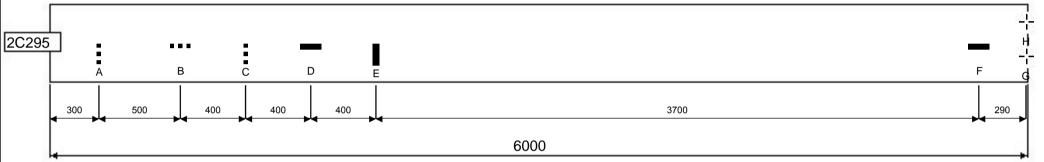
**TEND** 

NDT Reference Standard Certificate

Tubo patrón número
Reference standard #

2C295

| Datos del Producto Product Information |       |                     |                    |                                   |           |  |  |  |
|--|-------|---------------------|--------------------|-----------------------------------|-----------|--|--|--|
| Diametro [mm]                          | 139,7 | Cliente<br>Client   | CHEVRON<br>NIGERIA | Ciclo<br>Product                  | 63536     |  |  |  |
| Espesor [mm]<br>Wall Thickness         | 10,54 | Tratamiento Termico |                    | Colada<br><sub>Heat</sub>         | 80714     |  |  |  |
| Trazabilidad<br>Traceability           | 0     |                     |                    | Expediente<br>Manufacturing Order | 0/9974.02 |  |  |  |



Valores Pedidos / Requested Values

Valores Medidos / Measured Values

| Posicion<br>Position | Tipo de Notch<br>Notch Type              | Ancho / Diam<br>Max [mm]<br>Max Width /<br>Diam | Profundidad<br>Nominal [%]<br>Depth |     | Profundidad<br>Maxima<br>[mm]<br>Max Depth | Profundidad<br>Minima [mm]<br>Min Depth | Nominal<br>[mm] | Longitud<br>Maxima<br>[mm]<br>Max Length | Length | Profundid<br>ad A [mm]<br>Depth A |       | Ancho /<br>Diam [mm]<br>Width / Diam | Espesor<br>Remanente<br>[mm]<br>Thickness | Responsable<br>Responsible | Fecha<br>Date |
|----------------------|--|---|-------------------------------------|-----|--|---|-----------------|--|--------|-----------------------------------|-------|--------------------------------------|---|----------------------------|---------------|
| Α                    | Transversal Interno<br>Transverse ID     | 1,00  | 5                                   | ±15 | 0,606                                      | 0,448                                   | 0,527           | 25,00                                    | 22,50  | 0,533                             | 0,553 | 0,86                                 | -   | Sebastian Monteros         | 05/09/06      |
| В                    | Longitudinal Interno<br>Longitudinal ID  | 1,00  | 5                                   | ±15 | 0,606                                      | 0,448                                   | 0,527           | 25,00                                    | 24,00  | 0,586                             | 0,558 | 0,86                                 | -   | Sebastian Monteros         | 05/09/06      |
| С                    | Transversal Interno Transverse ID        | 1,00  | 5                                   | ±15 | 0,606                                      | 0,448                                   | 0,527           | 25,00                                    | 23,00  | 0,560                             | 0,571 | 0,85                                 | -   | Sebastian Monteros         | 05/09/06      |
| D                    | Longitudinal Externo longitudinal OD     | 1,00  | 5                                   | ±15 | 0,606                                      | 0,448                                   | 0,527           | 25,00                                    | 23,60  | 0,533                             | 0,557 | 0,85                                 | -   | Sebastian Monteros         | 05/09/06      |
| Е                    | Transversal Externo Transverse OD        | 1,00  | 5                                   | ±15 | 0,606                                      | 0,448                                   | 0,527           | 9,52                                     | 9,10   | 0,545                             | 0,545 | 0,85                                 | -   | Sebastian Monteros         | 05/09/06      |
| F                    | Longitudinal Externo longitudinal OD     | 1,00  | 5                                   | ±15 | 0,606                                      | 0,448                                   | 0,527           | 25,00                                    | 23,70  | 0,593                             | 0,585 | 0,87                                 | -   | Sebastian Monteros         | 05/09/06      |
| G                    | Punto de Espesor<br>Wall thickness point | -   | -                                   | -   | -  | -                                       | -               | -  | -      | -                                 | -     | -                                    | 10,11                                     | Sebastian Monteros         | 05/09/06      |
| Н                    | Punto de Espesor<br>Wall thickness point | -   | -                                   | -   | -  | -                                       | -               | -  | -      | -                                 | -     | -                                    | 10,56                                     | Sebastian Monteros         | 05/09/06      |

#### Notas

- 1.-Todas las dimensiones son en milimetros excepto que se indique lo contrario.
- 2.-Minima Profundidad Nominal de las ranuras 0.3 mm.

CERTIFICADO CON REPLICA SI

### Notes:

- 1.-All dimensions in milimeters unless stated.
- 2.-Minimum notch nominal depth 0.3 mm.

CERTIFIED WITH PLASTIC REPLICA YES

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Fecha Date 05/09/2006 03:09:45 p.m. Hoja Page 1/2 Documento Vigencia

TAND-001-05 17/04/2006



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2C295

| Datos del Producto Product Information |       |                     |                    |                                   |           |  |  |  |
|--|-------|---------------------|--------------------|-----------------------------------|-----------|--|--|--|
| Diametro [mm] Diameter                 | 139,7 | Cliente<br>Client   | CHEVRON<br>NIGERIA | Ciclo<br>Product                  | 63536     |  |  |  |
| Espesor [mm]<br>Wall Thickness         | 10,54 | Tratamiento Termico |                    | Colada<br><sub>Heat</sub>         | 80714     |  |  |  |
| Trazabilidad<br>Traceability           | 0     |                     |                    | Expediente<br>Manufacturing Order | 0/9974.02 |  |  |  |

Instrumentos de Medicion Utilizados:

Proyector de Perfiles Mitutoyo PJ-A3000 Codigo: 302-711A

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### Notes:

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- 2.-Minimum notch nominal depth 0.3 mm.

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