# PETRO FLANGE, S.A. DE C.V.

**Vendido a:** FERRETERIA Y REP.INT., S.A. DE C.V.
**Direccion:**
**Pedido:** TEL

| | |
|---|---|
| **Folio:** | **2599** |
| **Cert. No.** | PF-W-578-4 |
| **Date.** | 25/08/2008 |

## INSPECTION CERTIFICATE

| ITEM | PCS | DESCRIPTION | SPECIFICATIONS | HEAT No. | MECHANICAL COMPOSITION TENSILE Mpa | YIELD Mpa | ELONG % | R/Area % | HARDNES HB |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4 | S.O. 6" 150# R.F. | ASTM A-105-05<br>ASTM A-181<br>ASME SA-105-05<br>ASME B16.5-2003<br>NACE MR-0175-03/05<br>MSS SP-44<br>MSS SP-6 | 8329 | 505 | 272 | 32 | 35 | 167 |

## CHEMICAL COMPOSITION

| ITEM | HEAT. No. | C | Mn | P | S | Si | Cu [A] | Ni [A] | Cr [A,B] | Mo [A,B] | V [A] | Nb | CE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 8329 | 0.190 | 0.670 | 0.019 | 0.019 | 0.180 | 0.150 | 0.036 | 0.040 | 0.020 | 0.010 | - | 0.33 |

[A] The sum of cooper, nickel, chromium, molybdenum and vanadium shall not exceed 1.00 %
[B] The sum of chromium and molybdenum shall not exceed 0.32%

Ni+Cu)/15

**NOTE:** FORGED ROLLED 1150°C -1200°C
NORMALIZED 900°C AND ALLOWED TO COOL IN STILL AIR.

PETRO FLANGE S.A. DE C.V.
QUALITY ASSURANCE CONTROL DEPARTAMENT
ENTREGADO