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

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

**Direccion:**

**Pedido:** TEL

| | |
|---|---|
| **Folio:** | 3021 |
| **Cert. No.** | PF-WN-686-66 |
| **Date.** | 15/01/2009 |

## INSPECTION CERTIFICATE

| ITEM | PCS | DESCRIPTION | SPECIFICATIONS | HEAT No. | MECHANICAL COMPOSITION | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | TENSILE Mpa | YIELD Mpa | ELONG % | R/Area % | HARDNES HB |
| 1 | 5 | W.N. 1-1/2" 150# R.F. SCH-XS | ASTM A-105-05<br>ASME SA-105-ED2007-AD08<br>ASME B16.5<br>NACE MR-0175-03/05<br>BS3293 | 379 | 542 | 265 | 32 | 34 | 174 |

## CHEMICAL COMPOSITION

| ITEM | HEAT. No. | C | Mn | P | S | Si | Cu * | Ni * | Cr ** | Mo ** | V * | Nb | CE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 379 | 0.245 | 0.724 | 0.019 | 0.025 | 0.184 | 0.190 | 0.028 | 0.020 | 0.029 | 0.010 | - | 0.39 |

* The sum of cooper, nickel, chromium, molybdenum and vanadium shall not exceed 1.00 %

** 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
QUALITY CONTROL DEPARTMENT

ENTREGADO