



MAQUINADOS DE ACEROS FORJADOS

CALLE SIN NOMBRE ESQ. RIO HUAYAPANGO MZ. 2 LOTE 55 COLONIA EJIDO DEL SOCORRO
CUAUTITLAN IZCALLI EDO DE MEX, CP. 54740

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|------------------------|------------------------------|-----------------|------------------------|-----------|-----|
| CERTIFICADO DE CALIDAD | | CERTIFICADO No. | | 1372 | |
| | | FECHA: | | 12-Nov-09 | |
| CLIENTE | PLES ANAHUAC Y CIAS SA DE CV | | No. DE ORDEN DE COMPRA | 7297 | REF |

| | | | | | |
|---|--|--|--|--|--|
| ESPECIFICACIONES | | | PROCESO | | |
| A 105N - ASTM A 105N - 03/ ASME SA105N/NACE-MR-01-75/03 | | | FORGED/ROLLED 1150-1200 GRADES CELSIUS | | |

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|--|--|--|--|--|--|
| NORMAS Y GRADOS | | | TRATAMIENTO TERMICO | | |
| ASME boiler and pressure Vessel SECC II, Code Part A, Edition 2004 | | | NORMALIZED 900 GRADES CELSIUS AND ALLOWED TO COOL IN STILL AIR | | |

| PARTIDA | CANTIDAD | DESCRIPCION DEL PRODUCTO | NORMAS APLICABLES | MEDIDA | COLADA |
|---------|----------|--------------------------|---|--------|--------|
| 01 | 20 | BRIDA A C THD 150# RF | ASTM A-105-05 ASME SA-105-05 ASME B16.5 NACE MR-0175-03/05 | 1" | HHW |
| | | | | | |
| | | | | | |
| | | | | | |

PRUEBAS MECANICAS

| COLADA | RUPTURA (P.S.I.) | CEDENCIA (P.S.I.) | ELONGACION 2% | REDUCCION DE AREA % | DUREZA HB |
|--------|------------------|-------------------|---------------|---------------------|-----------|
| HHW | 85.254 | 43.564 | 26 | 39 | 85.0 |
| | | | | | |
| | | | | | |
| | | | | | |

% COMPOSICION QUIMICA

| COLADA | C | Mn | Si | P | S | Cr | Ni | Mo | Cu | SN | Al | Nb | V | Ti | Co | As | Sb | Hppm | Nppm | cEq | Cr+Mo | 1) |
|--------|-------|------|------|-------|-------|------|------|-------|------|----|----|----|-------|----|----|----|----|------|------|-----|-------|------|
| HHW | 0.003 | 0.85 | 0.19 | 0.007 | 0.015 | 0.01 | 0.01 | 0.027 | 0.02 | | | | 0.002 | | | | | | | | | 0.06 |
| | | | | | | | | | | | | | | | | | | | | | | 0.00 |
| | | | | | | | | | | | | | | | | | | | | | | 0.00 |

NOTA 1) Cr+Ni+Mo+Cu

PNMG
ELABORO

ENTREGADO
[Signature]
APROBADO

CC-01 REV1.0