

CLIENTE / Customer / Client  
**PLESA ANAHUAC Y CIA. S.A.C.V.**  
 AV. VALLE DE LAS ALAMEDAS, 66-0  
 COL. SAN FRANCISCO CHILPAN  
 54940 TULTILAN-EDO. DE MEXICO

**CERTIFICADO DE INSPECCION**  
 Works Certificate - Certificat d'Usine

DIN 50049 / 3.1 B  
 EN 10204 / 3.1 B

FECHA: 14/01/2005

N° 98392

HOJA: 1



N°: 922164



ULMA FORJA, S.COOP.

PRODUCTO **BRIDAS**  
 Article - Produit  
 SU PEDIDO N.º 300000007 (08.10.04)  
 Your Order No. Votre Cde. N.º

DE 08/10/2004  
 of - de

Certified acc. PED 9723/EC  
 by TÜV Rheinland  
 N.º 01 202 EQ 02 7443

Bº Zubillaga, 3 - Apdo. 14  
 20560 ONATI (Gipuzkoa) SPAIN  
 Tel.: 34 - 943 780552  
 Tel.: 34 - 943 781808  
 E-mail: forja@orging.ulma.es

NORMAS APLICABLES  
 Requirements - Normes Applicables  
**ASME B16.5-96**

MATERIAL CORRESPONDIENTE  
 Material Correspondent - Qualifié  
**ASTMA105N-02  
 ASME SA105N**

MODO DE FUSION (\*)  
 Steel Making - Elaboration de l'acier  
**NACE MR-01-75/03**  
 E = Elec. Y = Oxígeno básico

MARCA DEL FABRICANTE  
 Mark of factory  
 Marque du fabricant  
**ULMA**

DEPARTAMENTO **GARANTIA CALIDAD**  
 Department

44020

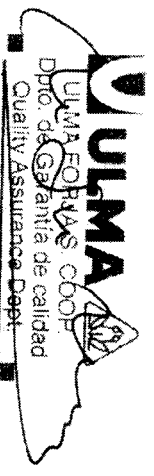
| PARTIDA<br>Item<br>Poste | CANTIDAD<br>Quantity<br>Quantité | DESCRIPCION<br>Description<br>Description | OBSERVACIONES<br>Remarks<br>Observations (*) | COLADA N.º<br>Heat No<br>N.ºCoulée | RESISTENCIA<br>T. Strength<br>Resist Rupt<br>N/mm2 | LIMITE ELAST.<br>Yield Point<br>Limite Elast.<br>N/mm2 | ALARGAM.<br>Elongation<br>Allongement<br>Lo. 4 d<br>% | ESTRICCION<br>Reduction A<br>Striction<br>% | RESILENCIA<br>Impact test<br>Resilience<br>Joules | MEDIA<br>Average<br>Moyenne | TEMPERATURA<br>°C | DUREZA<br>Hardness<br>Dureté<br>HB |
|--------------------------|----------------------------------|---|--|------------------------------------|--|--|---|---|---|-----------------------------|-------------------|------------------------------------|
| 1                        | 539                              | WN 2 150LB S40 RF A105N                   | NE   | 425A4                              | 519  | 320  | 33.00   | 67.00                                       |   |                             |                   | 150                                |
| 5                        | 72                               | WN 8 150LB S80 RF A105N                   | NE   | 434A4                              | 515  | 327  | 33.00   | 67.20                                       |   |                             |                   | 151                                |
| 9                        | 468                              | SO 6 150LB RF A105N                       | NE   | 372A4                              | 519  | 321  | 30.70   | 63.80                                       |   |                             |                   | 150                                |
| 15                       | 40                               | WN 8 300LB S40 RF A105N                   | NE   | 445A4                              | 520  | 324  | 32.00   | 64.80                                       |   |                             |                   | 151                                |
| 20                       | 9                                | WN 4 600LB S80 RF A105N                   | NE   | 441A4                              | 527  | 320  | 32.00   | 65.30                                       |   |                             |                   | 152                                |
| 22                       | 20                               | BLIND 3 600LB RF A105N                    | NE   | 445A4                              | 520  | 324  | 32.00   | 64.80                                       |   |                             |                   | 151                                |
| 24                       | 36                               | BLIND 6 600LB RF A105N                    | NE   | 410A4                              | 520  | 326  | 32.00   | 66.70                                       |   |                             |                   | 151                                |

**COMPOSICION QUIMICA - STEEL MARKER'S - ANALYSE CHIMIQUE**

| COLADA N.º<br>Heat No<br>N.ºCoulée | C %   | Si %  | Mn %  | P %   | S %   | Cr %  | Ni %  | Mo %  | Nb %  | V %   | Cu %  | CEQ % |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 372A4                              | 0.180 | 0.230 | 0.830 | 0.017 | 0.005 | 0.110 | 0.120 | 0.040 | 0.007 | 0.001 | 0.390 | 0.383 |
| 410A4                              | 0.190 | 0.250 | 0.870 | 0.026 | 0.011 | 0.100 | 0.150 | 0.040 | 0.007 | 0.002 | 0.390 | 0.399 |
| 425A4                              | 0.180 | 0.260 | 0.840 | 0.021 | 0.007 | 0.210 | 0.160 | 0.050 | 0.008 | 0.003 | 0.370 | 0.408 |
| 434A4                              | 0.190 | 0.250 | 0.870 | 0.020 | 0.006 | 0.130 | 0.140 | 0.040 | 0.007 | 0.002 | 0.380 | 0.404 |
| 441A4                              | 0.190 | 0.250 | 0.880 | 0.016 | 0.004 | 0.180 | 0.200 | 0.060 | 0.007 | 0.003 | 0.370 | 0.423 |
| 445A4                              | 0.180 | 0.240 | 0.830 | 0.020 | 0.006 | 0.170 | 0.150 | 0.040 | 0.007 | 0.001 | 0.330 | 0.393 |

- Las dimensiones y la condición superficial se hallaron satisfactorias
- Dimension and surface condition were found acceptable
- Les dimensions et états de surface sont satisfaisants
- Los materiales citados cumplen las normas aplicables
- Manufacturing requirements are satisfied
- Les normes applicables sont respectées

EL INSPECTOR  
 Works Inspector - L'inspecteur



(\*) OBSERVACIONES: N NORMALIZADO A 900 C Y ENFRIADO EN AIRE EN CALMA  
 Remarks  
 Observations