

CLIENTE / Customer / Client

PLESA ANAHUAC Y CIA S, S.A.C.V.
AV. VALLE DE LAS ALAMBRAS, 66-0
COL. SAN FRANCISCO CHILPAN
84940 TULITLAN-EDO. DE MEXICO

CERTIFICADO DE INSPECCION
Works Certificate - Certificat d'Usine

FECHA: 16/02/2005
Date:

N.º

99066

HOUA: 1

Page: 1



N.º: 922164



ULMA FORJA, S.COOP.

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

DE of - de 08/10/2004

Certified acc. PED 97/23/EC
by TÜV Rheinland
N.º 01 202 EQ 02 7443

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

NORMAS APPLICABLES ASME B16.5-96
Requirements - Normes Applicables

MARCA DEL FABRICANTE
Mark of factory
Marque du fabricant



44679

MATERIAL CORRESPONDIENTE ASTM A105N-02
Material Correspondent - Qualité ASME SA105N
MODO DE FUSION (*) NACE MR-01-75/03
Steel Making - Elaboration de l'acier
E = Elec. Y = Oxígeno básico

DEPARTAMENTO GARANTIA CALIDAD
Section Department

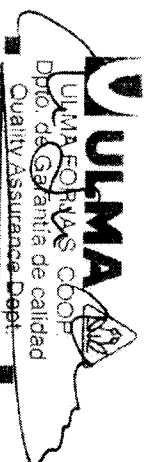
| PARTIDA Item Poste | CANTIDAD Quantity Quantité | DESCRIPCION Description Description | OBSERVACIONES Remarks Observations (*) | COLADA N.º Heat No N.ºCoulée | RESISTENCIA T. Strength Resist Rupt N/mm2 | LIMITE ELAST. Yield Point Limite Elast N/mm2 | ALARGAM. Elongation Allongement Lo. 4 d % | ESTRICCION Reduccion A Striction % | RESILIENCIA Impact test Resilience Joules | PROBETA - SPECIMEN MEDIA Average Moynme | °C | DUREZA Hardness Dureté HB |
|--------------------------|----------------------------------|---|--|------------------------------------|--|---|---|---|--|--|----|------------------------------------|
| 3 | 100 | WN 4 150LB S80 RF A105N | NE | 432A4 | 519 | 321 | 30.70 | 64.00 | | | | 150 |
| 6 | 36 | WN 10 150LB SXS RF A105N | NE | 411A4 | 515 | 320 | 31.60 | 64.00 | | | | 150 |
| 7 | 30 | WN 12 150LB SXS RF A105N | NE | 411A4 | 515 | 320 | 31.60 | 64.00 | | | | 150 |
| 21 | 20 | BLIND 2 600LB RF A105N | NE | 381A4 | 512 | 316 | 32.60 | 65.00 | | | | 150 |
| 26 | 150 | SO 12 150LB RF A105N | NE | 413A4 | 521 | 318 | 32.00 | 65.20 | | | | 152 |

COMPOSICION QUIMICA - STEEL MARKER'S - ANALYSE CHIMIQUE

| COLADA N.º Heat No N.ºCoulée | C % | Si % | Mn % | P % | S % | Cr % | Ni % | Mo % | Nb % | V % | Cu % | CEQ % |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 381A4 | 0.210 | 0.300 | 1.090 | 0.016 | 0.027 | 0.020 | 0.010 | 0.002 | 0.001 | 0.002 | 0.240 | 0.413 |
| 411A4 | 0.180 | 0.270 | 0.900 | 0.017 | 0.003 | 0.090 | 0.150 | 0.040 | 0.007 | 0.001 | 0.280 | 0.385 |
| 413A4 | 0.190 | 0.210 | 0.870 | 0.029 | 0.003 | 0.170 | 0.140 | 0.040 | 0.007 | 0.002 | 0.400 | 0.413 |
| 432A4 | 0.180 | 0.300 | 0.870 | 0.023 | 0.004 | 0.210 | 0.280 | 0.080 | 0.007 | 0.003 | 0.320 | 0.424 |

- 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 sont 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