

CLIENTE / Customer / Client

PLESA ANAHUAC Y CIAS, S.A.C.V.
AV. VALLE DE LAS ALAMEDAS, 66-0
COL. SAN FRANCISCO CHILPAN
54940 TULTITLAN-EDO. DE MEXICO

CERTIFICADO DE INSPECCION
Works Certificate - Certificat d'Usine

DIN EN 10204 / 3.1
ISO 10474 / 3.1

FECHA:
Date:

31/03/2006

N.º
No.

106026

HOJA:
Page:

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PRODUCTO
Article - Produit

BRIDAS

SU PEDIDO N.º
Your Order No.

10668 (24.02.06)

DE

af. - de 24/02/2006

Certified acc. PED 97/23/EC
by TÜV Rheinland

N.º 01 202 EQ 02 7443

Bº Zubillaga, 3 - Apdo. 14
20560 ONATI (Gipuzkoa) SPAIN

Tel.: 34 - 943 780552

Fax: 34 - 943 781808

E-mail: forja@forging.ulma.es

NORMAS APLICABLES
Requirements - Normes Applicables

ASME B16.5-96

MATERIAL CORRESPONDIENTE
Material Correspondent - Qualifié

ASTMA105N-03

ASME SA105N-03

MODO DE FUSION (*)

Steel Making - Elaboration de l'acier

E = Elec. Y = Oxígeno básico

NACE MR-01-75/03

N.º: SGI 1922164



ULMA FORJA, S.COOP.



MARCA DEL FABRICANTE

Mark of factory

Marque du fabricant

51436

DEPARTAMENTO GARANTÍA 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. Y.Strength Limite Elast. N/mm2 | ALARGAM. Elongation Allongement Lo: 4 d % | ESTRICCION Red. Area Striction % | RESILENCIA Impact test Resilience Joules | PROBETA - SPECIMEN | | DUREZA Hardness Dureté HB |
|--------------------------|----------------------------------|---|--|------------------------------------|---|---|---|---|---|-----------------------------|----|------------------------------------|
| | | | | | | | | | | MEDIA Average Moyenne | °C | |
| 5 | 60 | BLIND 4 300LB RF A105N | NE | 54A6 | 514 | 319 | 32,80 | 66,00 | 66,00 | | | 149 |
| 10 | 10 | SO 24 150LB RF A105N | NE | 223A5 | 517 | 316 | 32,40 | 65,00 | 65,00 | | | 150 |
| 20 | 19 | WN 3 150LB S40 RF A105N | NE | 41A6 | 519 | 317 | 32,40 | 65,80 | 65,80 | | | 150 |
| 20 | 85 | WN 3 150LB S40 RF A105N | NE | 46A6 | 515 | 320 | 32,70 | 65,00 | 65,00 | | | 149 |

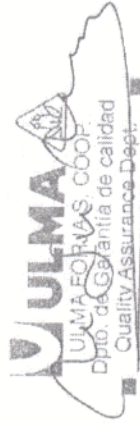
COMPOSICION QUIMICA - STEEL MARKER'S LADLE ANALYSIS - ANALYSE CHIMIQUE

| COLADA N.º Heat No N.ºCoulée | C % | Si % | Mn % | P % | S % | Cr % | Ni % | Mo % | Nb % | V % | Cu % | CEQ % |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 223A5 | 0.180 | 0.250 | 0.840 | 0.016 | 0.001 | 0.170 | 0.080 | 0.030 | 0.007 | 0.002 | 0.310 | 0.386 |
| 41A6 | 0.190 | 0.280 | 0.860 | 0.015 | 0.004 | 0.100 | 0.090 | 0.030 | 0.007 | 0.001 | 0.260 | 0.383 |
| 46A6 | 0.180 | 0.240 | 0.840 | 0.019 | 0.002 | 0.090 | 0.090 | 0.030 | 0.007 | 0.002 | 0.270 | 0.368 |
| 54A6 | 0.180 | 0.260 | 0.810 | 0.014 | 0.001 | 0.110 | 0.100 | 0.040 | 0.007 | 0.004 | 0.230 | 0.368 |

- 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:
Remarks
Observations

N NORMALIZADO A 900 C Y ENFRIADO EN AIRE EN CALMA