

CLIENTE / Customer / Client

PLESA ANAHUAC Y CIA S, S.A.C.V.
AV. VALLE DE LAS ALAMEDAS, 66-O
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: 25/01/2006

N.º 104549

HOUA: Page: 3

N.º SGI 1922164



ULMA FORJA, S.COOP.

PRODUCTO BRIDAS SU PEDIDO N.º
Article - Produit Your Order No. 522 (21.10.05)
Votre Cde. N.º

DE of. - de 21/10/2005

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

Bº Zubillaga, 3 - Apdo. 14
20560 ORLATTI (Gipuzkoa) SPAIN
Tel.: 34 - 943 780552
Fax: 34 - 943 781808
E-mail: forja@forjng.ultima.es

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

MATERIAL CORRESPONDIENTE ASTM A105N-03
Material Correspondent - Qualité ASME SA105N-03

MODO DE FUSION (*) NACE MR-01-75/03
Steel Making - Elaboration de l'acier

E = Elec. Y = Oxígeno básico

DEPARTAMENTO GARANTÍA CALIDAD
Section Department



49945 - I

| PARTIDA Item Poste | CANTIDAD Quantity Quantité | DESCRIPCION Description Description | OBSERVACIONES Remarks Observations (*) | COLADA N.º Heat No N.º Coulee | RESISTENCIA T. Strength Resist Rupt N/mm2 | LIMITE ELAST Y. Strength Limite Elast N/mm2 | ALARGAM. Elongation Allongement Lc. 4 d % | ESTRICCION Red. Area Striction % | RESILIENCIA Impact test Resilience Joules | MEIA Average Moyenne | °C | DUREZA Hardness Dureté HB |
|--------------------------|----------------------------------|---|--|-------------------------------------|--|--|---|---|--|----------------------------|----|------------------------------------|
| 21 | 384 | THR 3 150LB RF A105N | NE | 419A4 | 520 | 317 | 33.10 | 66.00 | | | | 151 |

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

| COLADA N.º Heat No N.º Coulee | C % | Si % | Mn % | P % | S % | Cr % | Ni % | Mo % | Nb % | V % | Cu % | CEQ % |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 419A4 | 0.190 | 0.290 | 0.800 | 0.020 | 0.003 | 0.230 | 0.150 | 0.060 | 0.008 | 0.003 | 0.320 | 0.413 |

- 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

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

MARCA DEL FABRICANTE
 Mark of factory
 Marque du fabricant



49945

MATERIAL CORRESPONDIENTE **ASTMA105N-03**
 Material Correspondent - Qualité
ASME SA105N-03
 MODO DE FUSION (*) **NACE MR-01-75/03**
 Steel Making - Elaboration de l'acier
 E = Elec. Y = Oxígeno básico

DEPARTAMENTO **GARANTÍA CALIDAD**
 Section
 Department

| PARTIDA Item Poste | CANTIDAD Quantity Quantité | DESCRIPCION Description Description | OBSERVACIONES Remarks Observations (*) | COLADA N.º Heat No N.º Coule | RESISTENCIA | | LIMITE ELAST. | | ALARGAM. Elongation Allongement Lo. 4 d % | ESTRICCION Red. Area Striction % | RESILIENCIA Impact test Resilience Joules | MEDIA Average Moyenne | °C | DUREZA Hardness Dureté HB |
|--------------------------|----------------------------------|---|--|------------------------------------|-------------------------------------|---------------------------------------|---------------|-------|---|---|--|-----------------------------|----|------------------------------------|
| | | | | | T. Strength Resist Rupt N/mm2 | Y. Strength Limite Elast. N/mm2 | | | | | | | | |
| 10 | 196 | WN 4 150LB S40 RF A105N | NE | 430A5 | 516 | 318 | 33,70 | 66,20 | | | | | | 149 |
| 12 | 12 | WN 14 300LB S/STD RF A105N | NE | 406A5 | 512 | 322 | 34,30 | 67,00 | | | | | | 148 |
| 14 | 72 | WN 4 300LB S80 RF A105N | NE | 1A6 | 519 | 315 | 32,40 | 66,00 | | | | | | 150 |
| 15 | 20 | WN 8 300LB S80 RF A105N | NE | 121A5 | 521 | 313 | 31,80 | 63,00 | | | | | | 152 |
| 18 | 24 | WN 8 600LB S40 RF A105N | NE | 5A6 | 515 | 318 | 32,70 | 65,00 | | | | | | 150 |
| 20 | 64 | BLIND 6 300LB RF A105N | NE | 451A5 | 514 | 318 | 31,70 | 63,00 | | | | | | 150 |

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

| COLADA N.º Heat No N.º Coule | C % | Si % | Mn % | P % | S % | Cr % | Ni % | Mo % | Nb % | V % | Cu % | CEQ % |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 121A5 | 0.180 | 0.250 | 0.820 | 0.016 | 0.004 | 0.170 | 0.170 | 0.050 | 0.007 | 0.002 | 0.380 | 0.398 |
| 1A6 | 0.190 | 0.240 | 0.880 | 0.017 | 0.001 | 0.110 | 0.100 | 0.020 | 0.007 | 0.002 | 0.240 | 0.386 |
| 406A5 | 0.180 | 0.240 | 0.830 | 0.009 | 0.003 | 0.080 | 0.080 | 0.030 | 0.007 | 0.001 | 0.200 | 0.359 |
| 430A5 | 0.180 | 0.260 | 0.850 | 0.020 | 0.005 | 0.130 | 0.090 | 0.030 | 0.007 | 0.001 | 0.230 | 0.375 |
| 451A5 | 0.180 | 0.230 | 0.840 | 0.019 | 0.003 | 0.150 | 0.100 | 0.030 | 0.007 | 0.003 | 0.230 | 0.379 |
| 5A6 | 0.180 | 0.230 | 0.860 | 0.027 | 0.001 | 0.100 | 0.080 | 0.030 | 0.007 | 0.001 | 0.260 | 0.372 |

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(*) OBSERVACIONES:
 Remarks
 Observations
 N_NORMALIZADO A 900 C Y ENFRIADO EN AIRE EN CALMA