

CLIENTE / Customer / Client

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

### CERTIFICADO DE INSPECCION

Works Certificate - Certificat d'Usine

DIN 50049 / 3.1 B  
EN 10204 / 3.1 B

FECHA: 30/03/2005

N°

100040

HOJA: 1

N°: 922164



# ULMA

ULMA FORJA, S.COOP.

PRODUCTO

BRIDAS

SU PEDIDO N°  
Your Order No. 300000014 (10.01.05)  
Votre Cde. N°

DE  
of - de 20/01/2005

Certified acc. PED 9729/EC  
by TÜV Rheinland  
N° 01 202 EQ 02 7443

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

NORMAS APPLICABLES

ASME B16.5-96

45397

MATERIAL CORRESPONDIENTE

ASTMA105N-02  
ASME SA105N

NACE MR-01-75/03

MODO DE FUSION (\*)

Steel Making - Elaboration de l'acier

E = Elec. Y = Oxígeno básico

DEPARTAMENTO GARANTIA CALIDAD  
Section Department



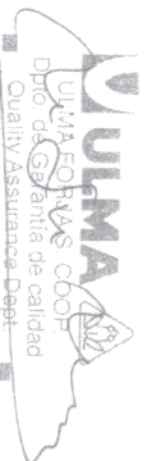
PARTIDA Item Poste	CANTIDAD Quantity Quantité	DESCRIPCION Description Description	COLADA N° Heat No N°Coulée	RESISTENCIA T. Strength Resist Rupt N/mm2	LIMITE ELAST Yield Point Limite Elast N/mm2	ALARGAM. Elongation Allongement Lo. 4 d %	ESTRICCION Reduction A Striction %	RESILIENCIA Impact test Resilience Joules	MEDIA Average Moyenne	°C	DUREZA Hardness Dureté HB
1	40	SO 16 150LB RF A105N	79R4	512	342	33.60	67.00				149
2	216	SO 10 150LB RF A105N	77A5	521	311	31.30	63.60				151
2	72	SO 10 150LB RF A105N	79A5	515	321	32.00	65.30				150
5	60	BLIND 2 300LB RF A105N	381A4	512	316	32.60	65.00				150
6	30	BLIND 4 300LB RF A105N	49A5	515	313	32.50	64.00				150
7	36	BLIND 8 300LB RF A105N	370A4	518	321	32.60	65.70				151

### COMPOSICION QUIMICA - STEEL MARKERS - ANALYSE CHIMIQUE

COLADA N° Heat No N°Coulée	C %	Si %	Mn %	P %	S %	Cr %	Ni %	Mo %	Nb %	V %	Cu %	CEQ %
370A4	0.180	0.300	0.800	0.016	0.001	0.130	0.180	0.040	0.007	0.002	0.320	0.381
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
49A5	0.180	0.270	0.850	0.023	0.005	0.080	0.120	0.030	0.007	0.001	0.370	0.377
77A5	0.180	0.290	0.810	0.014	0.004	0.130	0.140	0.030	0.007	0.002	0.340	0.379
79A5	0.180	0.290	0.850	0.028	0.010	0.190	0.120	0.030	0.007	0.002	0.390	0.400
79R4	0.160	0.230	1.170	0.013	0.004	0.090	0.120	0.060	0.001	0.002	0.290	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