

CLIENTE / Customer / Client

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

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

FECHA: 12/07/2005

N° 101898

HOJA: 2

DIN 50049 / 3.1 B  
EN 10204 / 3.1 B  
ISO 10474 / 3.1 B

N°: 922164

ULMA FORJA, S.COOP.



PRODUCTO

ACCESORIOS

SU PEDIDO N°  
Your Order No  
300000024-JULIO 2005

DE  
of - de 29/04/2005

Certified acc. PED 9722/EC  
by TÜV Rheinland  
N° 01 202 EQ 02 7443

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

NORMAS APLICABLES

ASME B16.11-01

REQUIREMENTS - Normes Applicables

MATERIAL CORRESPONDIENTE  
ASTMA 105N-03  
ASME SA105N

MODO DE FUSION (\*)

NACE MR-01-75/03

Steel Making - Elaboration de l'acier

NACE MR-01-75/03

DEPARTAMENTO GARANTIA CALIDAD  
Section



47228 - 1

PARTIDA Item Poste	CANTIDAD Quantity Quantité	DESCRIPCION Description Description	OBSERVACIONES Remarks Observations (*)	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 %	RESILENCIA Impact test Resilience Joules	MEIA Average Moyenne	°C	DUREZA Hardness Dureté HB
4	90	CODO45 3/4 3000LB NPT A105N	NE	61R2	518	339	31.90	62.00				150
5	150	CODO90 1 3000LB NPT A105N	NE	210A5	518	316	31.70	65.00				150
8	150	CODO90 2 3000LB SW A105N	NE	193A5	514	317	32.70	66.20				150
9	160	TE 1 3000LB SW A105N	NE	315A4	512	302	32.80	65.00				150
10	300	T.JUNCTION 1 3000LB NPT A105N	NE	226A4	528	337	31.00	62.30				152
11	60	T.JUNCTION 1.1/4 3000LB NPT A105N - Hembra	NE	319A4	519	306	31.00	64.70				151
11	60	T.JUNCTION 1.1/4 3000LB NPT A105N - Tuercas	NE	147AZ	520	316	31.40	60.70				150
11	60	T.JUNCTION 1.1/4 3000LB NPT A105N - Macho	NE	109A4	519	325	32.00	66.30				152
12	320	T.JUNCTION 1/2 3000LB NPT A105N	NE	114A3	512	327	30.80	60.20				152

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

COLADA N° Heat No N°Coulée	C %	Si %	Mn %	P %	S %	Cr %	Ni %	Mo %	Nb %	V %	Cu %	CEQ %
109A4	0.210	0.280	0.820	0.024	0.030	0.140	0.110	0.010	0.000	0.002	0.160	0.395
114A3	0.180	0.260	0.990	0.009	0.031	0.110	0.120	0.030	0.001	0.005	0.150	0.392
147AZ	0.180	0.260	1.020	0.014	0.030	0.160	0.150	0.030	0.002	0.004	0.160	0.409
193A5	0.180	0.250	0.820	0.020	0.002	0.150	0.090	0.030	0.007	0.002	0.250	0.376
210A5	0.190	0.170	0.820	0.011	0.009	0.120	0.120	0.030	0.007	0.001	0.380	0.384
226A4	0.200	0.280	1.000	0.005	0.027	0.120	0.150	0.030	0.001	0.004	0.150	0.417
315A4	0.190	0.170	1.050	0.009	0.020	0.030	0.080	0.010	0.000	0.001	0.190	0.391
319A4	0.190	0.180	1.040	0.007	0.018	0.030	0.080	0.010	0.000	0.001	0.170	0.388
61RZ	0.160	0.260	1.260	0.018	0.001	0.090	0.120	0.030	0.005	0.003	0.240	0.419

- 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