

Customer / Client
PLESA ANAHUAC Y CIA S. S.A.C.V.
 AV. VALLE DE LAS ALAMEDAS, 66-0
 COL. SAN FRANCISCO CHILPAN
 54940 TULITLILAN-EDO. DE MEXICO

CERTIFICADO DE INSPECCION

Inspection Certificate - Certificat de Réception ISO 10474 / 3.1

DIN EN 10204 / 3.1

FECHA: 24/07/2008
 Date: 24/07/2008

N° 122441
 HOJA: 1



UULMA

ULMA FORJA, S.COOP.

PRODUCTO **BRIDAS**
 Article - Produit
 NORMAS APLICABLES **ASME B16.5-03**
 Requirements - Normes Applicables

MATERIAL CORRESPONDIENTE **ASTMA105N-05**
 Material Correspondent - Qualité
 MODO DE FUSION (*) **ASME SA105N-05**
 Steel Making - Elaboration de l'acier
 E = Elec. Y = Oxígeno básico

SU PEDIDO N.º **O.C. 4459 (15.04.08)**
 Your Order No. Vofre Cde. N.º
 DE of. - de **15/04/2008**
 Certified acc. PED 97/23/EC
 by TÜV Rheinland
 N.º 01 202 E/C 02 7443
 MARCA DEL FABRICANTE
 Mark of factory
 Marque du fabricant
 DEPARTAMENTO **GARANTÍA CALIDAD**
 Section
 Département
 Bº Zubillaga, 3 - Apdo. 14
 20560 ONATI (Gipuzkoa) SPAIN
 Tel.: 34 - 943 780552
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 E-mail: ulma@ulmapiping.com
68038

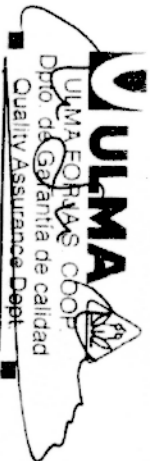
PARTIDA Item Poste	CANTIDAD Quantity Quantité	DESCRIPCION Description Description	OBSERVACIONES Remarks Observations (*)	COLADA N.º Heat No N.ºCoulée	RESISTENCIA T Strength Resist Rupt N/mm2	LIMITE ELAST. Y Strength Limite Elast N/mm2	ALARGAM. Elongation Allongement Lc. 4 d %	ESTRICCION Red Area Striction %	RESILIENCIA Impact test Résilience Joules	MEDIA Average Moyenne		DUREZA Hardness Dureté
										°C	HB	
1	60	SO 1.1/2 150LB RF A105N	NE	434A7	522	319	33.40	67.00		152	158	
2	25	SO 2.1/2 150LB RF A105N	NE	345A7	521	306	32.70	64.00		146	151	
3	100	SO 3 150LB RF A105N	NE	198A8	521	306	28.70	53.50		151	156	
4	51	SO 4 150LB RF A105N	NE	24R5	514	337	34.80	69.00		143	150	
5	29	SO 4 150LB RF A105N	NE	51A8	515	303	28.40	56.00		150	156	
6	9	SO 5 150LB RF A105N	NE	499A7	514	305	28.70	55.30		150	158	
7	11	SO 5 150LB RF A105N	NE	53A8	514	303	28.40	53.60		149	154	
8	2	SO 16 150LB RF A105N	NE	186A8	520	315	29.30	54.00		150	156	
	8	SO 16 150LB RF A105N	NE	186A8	518	316	30.20	55.40		150	156	

COMPOSICION QUIMICA - STEEL MARKERS LADLE ANALYSIS - ANALYSE CHIMIQUE

COLADA N.º Heat No N.ºCoulée	C %	Si %	Mn %	P %	S %	Cr %	Ni %	Mo %	Nb %	V %	Cu %	Al %	Ti %	N %	CEq %
186A8	0.200	0.230	0.840	0.030	0.009	0.200	0.090	0.050	0.007	0.007	0.220	0.017	0.000	0.000	0.412
188A8	0.200	0.240	0.860	0.021	0.001	0.130	0.070	0.030	0.007	0.001	0.180	0.027	0.000	0.000	0.392
198A8	0.210	0.250	0.860	0.013	0.004	0.060	0.100	0.010	0.000	0.001	0.230	0.026	0.000	0.000	0.390
24R5	0.170	0.240	1.180	0.019	0.004	0.130	0.130	0.050	0.007	0.002	0.270	0.035	0.000	0.000	0.430
345A7	0.190	0.180	1.030	0.007	0.020	0.040	0.090	0.020	0.001	0.002	0.200	0.003	0.000	0.000	0.393
434A7	0.200	0.270	0.990	0.008	0.003	0.090	0.060	0.010	0.000	0.002	0.140	0.026	0.000	0.000	0.399
499A7	0.200	0.210	0.870	0.015	0.008	0.090	0.110	0.010	0.000	0.005	0.240	0.019	0.000	0.000	0.389
51A8	0.200	0.230	0.870	0.010	0.005	0.080	0.100	0.010	0.000	0.002	0.210	0.024	0.000	0.000	0.384
53A8	0.200	0.220	0.870	0.011	0.005	0.090	0.100	0.010	0.000	0.001	0.220	0.022	0.000	0.000	0.387

- Las dimensiones y la condicion 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