

CLIENTE / Customer / Client

FERRETERA ANAHUAC, S.A. DE C.V.  
 AV. VALLE DE LAS ALAMEDAS, 66 LETRA B  
 SAN FRANCISCO CHILPAN  
 54940 TULTITLAN-EDO. DE MEXICO

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

DIN 50049 / 3.1.B.  
 EN 10204 / 3.1.B.



N.º: 922164



ULMA FORJA, S. COOP.  
 8º Zubillaga, 3 º Apdo. 14  
 20560 ONATI (Gipuzkoa) SPAIN 29935  
 Tel.: 34 - 943 780552  
 Fax: 34 - 943 781808

FECHA: 11/01/02  
 Date-Date:

N.º 84047  
 No.-N.º

HOJA: 2  
 Page:

PRODUCTO BRIDAS

Article - Produit

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

MATERIAL CORRESPONDIENTE  
 Material Correspondent - Qualité

MODO DE FUSION (\*)  
 Steel making - Elaboration de l'acier  
 E = Elec. Y = Oxígeno básico

SU PEDIDO N.º 14714 (07.11.01)  
 Your Order No.  
 Votre Cde. N.º

DE 07/11/01  
 of - de

ASTMA105N-98  
 ASMESA105N NACE MR-01-75/01

MARKA DEL FABRICANTE  
 Mark of factory  
 Marque du fabricant  
 DEPARTAMENTO  
 Section  
 Departement

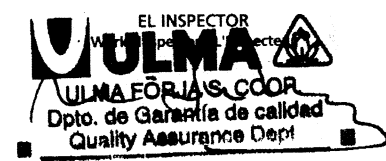


PARTIDA Item Poste	CANTIDAD Quantity Quantité	DESCRIPCION Description Description	OBSERVACIONES Remarks Observations (*)	COLADA N.º Heat No N.º Coulée	RESISTENCIA T. Strength Resist Rupt N/mm2	LIMITE ELAST. Yield Point Limite élastique N/mm2	ALARGAM. Elongation Allongement Lo: 4 d %	ESTRICCION Reduction A Striction %	RESILIENCIA Impact energy Resilience Joules		DUREZA Hardness Dureté HB
									MEDIA AVERAGE MOYENNE	°C	
29	10	SO 14 300LB RF A105N	NE	113AX	516	329	30,6	55,0			150
31	30	WN 14 150LB S/STD RF A105N	NE	483AX	524	336	31,0	60,3			152
34	80	SO 6 300LB RF A105N	NE	426AX	523	332	30,7	56,0			152
36	210	WN 3 300LB S80 RF A105N	NY	418AX	510	315	32,0	57,0			150
37	30	SO 14 150LB RF A105N	NE	102AX	525	332	30,7	54,8			152
37	15	SO 14 150LB RF A105N	NE	3AZ	523	331	30,7	58,0			152

Plesa Anáhuac  
 COPIA CONTROLADA

COLADA Heat Coulée No	COMPOSICION QUIMICA - STEEL MAKER'S LADLE ANALYSIS - ANALYSE CHIMIQUE											CEG %
	C %	Si %	Mn %	P %	S %	Cr %	Ni %	Mo %	Nb %	V %	Cu %	
113AX	0,18	0,30	0,83	0,014	0,001	0,08	0,10	0,05	< .02	< .02	0,33	0,370
483AX	0,20	0,29	0,86	0,015	0,001	0,08	0,11	0,04	< .02	< .02	0,39	0,400
426AX	0,19	0,28	0,86	0,013	0,001	0,09	0,10	0,04	< .02	< .02	0,29	0,390
418AX	0,19	0,20	0,85	0,014	0,014	< .02	0,02	< .02	< .02	< .02	< .02	0,340
102AX	0,20	0,26	0,82	0,017	0,001	0,12	0,11	0,04	< .02	< .02	0,30	0,400
3AZ	0,19	0,30	0,90	0,015	0,001	0,08	0,10	0,04	< .02	< .02	0,36	0,390

- 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



N NORMALIZADO A 900 C Y ENFRIADO EN AIRE EN CALMA

(\*) OBSERVACIONES:  
 Remarks  
 Observations

6600 South Harlem Avenue  
 Argo, IL 60501-1930  
 Phone: (708) 594-1700  
 Fax: (708) 458-0106



**MATERIAL TEST REPORT  
 FITTINGS**

To: PLESA ANAHUAC Y CIAS. S.A DE CV.  
 CROSSING OF MEX/FOR OF LAREDO  
 LAREDO, TX 78041  
 Attn: HEIDI

Order No: 5227

Description	Qty	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Cb*	V	Tens	Yield	Elong	BHN	
16" x 8" Std Reducing Tee						AW075		NKK					Heat Treat: Stress Relieved				
0.331	200		.720	.016	.005	.180	.020	.020	.030	.010	.000	.000	73600	49600	34.80	145	
20" Std Cap						08290		GALLATIN				USA	Heat Treat: Stress Relieved				
0.363	190		.900	.013	.005	.210	.090	.050	.050	.020	.001	.000	73600	48900	33.90	158	
18" Std Cap						98102		US STEEL				USA	Heat Treat: Stress Relieved				
0.376	210		.940	.011	.006	.220	.020	.020	.030	.000	.001	.001	71900	44400	35.80	143	
10" Std Cap						08013		IPSCO					Heat Treat: Stress Relieved				
0.378	160		.930	.011	.003	.190	.270	.130	.120	.040	.001	.021	72700	46100	33.40	150	
24" x 18" Std Concentric Reducer						539Z		US STEEL				USA	Hot Formed				
0.403	200		1.060	.009	.003	.200	.060	.040	.080	.020	.001	.000	77000	51500	36.00	71.00	139
24" XS Cap						99229		SALZGITTER					Heat Treat: Stress Relieved				
0.315	150		.900	.017	.006	.190	.030	.040	.040	.010	.000	.000	75400	41100	25.10	146	
20" XS Cap						99026		US STEEL				USA	Heat Treat: Stress Relieved				
0.375	220		.870	.009	.010	.200	.020	.030	.020	.010	.001	.001	73400	44400	28.20	146	

Plesa ANAHUAC CONTROLADA

All fittings meet the requirements of ASTM A-234 WPB, (and SA-234) and are seamless except as noted. Starting Material Seamless Pipe for elbows, tees and reducers; Plate for caps and welded fittings. ISO 9001:2000 CERTIFIED MANUFACTURER. All fittings meet NACE MRO-175 - Latest Revision. All fittings meet NACE MRO-103 - Latest Revision.



By Heidi Plesa October 8, 2008

Quality Assurance Department  
 Test Results herein are correct as contained in test records retained by the company.  
 In accordance with EN 10 204 Para 3.1.8  
 In accordance with PED 97/23/EC, 7/2

6600 South Harlem Avenue  
 Argo, IL 60501-1930  
 Phone: (708) 594-1700  
 Fax: (708) 458-0106



**MATERIAL TEST REPORT  
 FITTINGS**

To: PLESA ANAHUAC Y CIAS. S.A. DE C.V.  
 CROSSING OF MEX/FOR OF LAREDO  
 LAREDO, TX 78041  
 Attn: HEIDI

Order No. PO# 5957

Description	Heat ID	Steel Producer	Ten	Yield	Elong	BHN	Rev Yr									
Qty	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Cb*	V	Ten	Yield	Elong	BHN	Rev Yr
Carbon Equivalence Notes: *No longer required under the current standard																
14" x 12" Std Reducing Tee	960340	DALMINE	Heat Treat: Normalized													
2	.150	.830	.011	.003	.210	.130	.140	.080	.050	.003	.010	72664	49458	40.00	197	04
0.334																
14" x 10" Std Reducing Tee	AW558D	TAMSA	Heat Treat: Stress Relieved													
3	.170	.690	.012	.001	.290	.013	.050	.080	.030	.000	.000	73900	48600	39.40	146	01
0.311																
2" x 1 1/2" Std Reducing Tee	99309	SUMITOMO	Heat Treat: Stress Relieved													
10	.090	1.270	.009	.002	.300	.020	.050	.080	.030	.000	.010	66900	37400	23.10	134	97
0.330																
2" x 1" Std Reducing Tee	09095	NKK	Heat Treat: Stress Relieved													
10	.130	1.180	.014	.001	.200	.020	.010	.020	.010	.000	.000	65400	58700	25.60	132	06
0.335																
12" Std Cap	09029	NUCOR STEEL	Heat Treat: Stress Relieved													
3	.060	1.000	.008	.002	.220	.110	.050	.040	.010	.012	.003	66600	49300	35.30	135	06A
0.248																
20" XS Cap	99024	US STEEL	Heat Treat: Stress Relieved													
2	.220	.930	.010	.007	.200	.010	.010	.020	.010	.001	.001	76400	46300	28.40	153	97
0.383																
12" XS Cap	09031	MITTAL	Heat Treat: Stress Relieved													
1	.260	1.150	.006	.002	.195	.015	.011	.019	.002	.001	.001	82900	52300	35.00	166	06A
0.458																

All fittings meet the requirements of ASTM A-234 WPB, (and SA-234) and are seamless except as noted. Starting Material Seamless Pipe for elbows, tees and reducers; Plate for caps and welded fittings. ISO 9001:2000 CERTIFIED MANUFACTURER. All fittings meet NACE MRO-175 - Latest Revision. All fittings meet NACE MRO-103 - Latest Revision.



March 19, 2009

By: *Michelle Hamrick*

Quality Assurance Department  
 Test Results herein are correct as contained in test records retained by the company.  
 In accordance with EN 10 204 Para 3.1.B  
 In accordance with PED 97/23/EC, 7/2