

JOSE TRINIDAD VAZQUEZ LOPEZ  
 CANTOS DEGOLLADO NO. 317  
 SECTOR CENTRO NUEVO LAREDO  
 TAMP. - C.P. 88000  
 EXICO

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

DIN EN 10204 / 3.1  
 ISO 10474 / 3.1

FECHA:  
 Date:

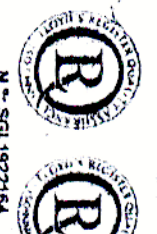
30/03/2007

N.º

113106

HOLA:

Page: 2



**UULMA**  
 UULMA FORJAL S.COOP.  
 N.º SGI 1922164

BRIDAS  
 SU PEDIDO N.º  
 Your Order No.  
 VAC-03-048/07  
 Your Order No.º

DE  
 of. de 16/03/2007

Certified acc. PED 9172/EC  
 by TÜV Rheinland  
 N.º 01 202 EQ 02 7443

8º Zuloaga, 3 - Aodo. 14  
 20590 OIAITI (Guzutxo) SPAIN  
 Tel.: 34 - 943 750552  
 Fax: 34 - 943 751808  
 E-mail: uulma@uulmaproing.com

ASTM A105N-05  
 ASTM A105N-05  
 NACE MR-01-75/03

MARCA DEL FABRICANTE  
 Mark of factory  
 Marque du fabricant  
**UULMA**  
 DEPARTAMENTO GARANTIA CALIDAD  
 Department

58598

2/3

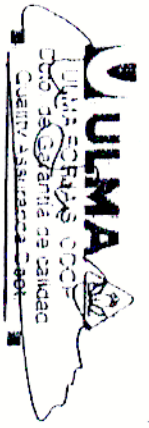
PARTIDA	CANTIDAD	DESCRIPCION	Observaciones	COLADA N.º	RESISTENCIA	UNTS EXT	ALARGAM	ESTRUCION	RESILENCIA	TEMP	JUREZA
Item	Quantity	Description	Remarks	Heat No	T Strength	Y Strength	Elongation	Red Line	Impact Used	Temp	Hardness
Poste	Quantité	Description	Observations	N.º Colade	Resist. Rivet	Unite Ext	Alongement	Strain	Resilience	Temp	HB
80	1	WN 8 150LB S40 RE A105N	NE	18A7	517	320	33.00	64.80			150
12	1	WN 8 150LB S40 RE A105N	NE	382A6	518	320	32.70	64.00			151
1	1	WN 14 150LB STD/30 RE A105N	NE	57A7	520	319	32.90	64.80			151
1	1	WN 18 150LB S/STD RE A105N	NE	57A7	516	317	32.40	63.90			148
2	1	WN 20 150LB STD/20 RE A105N	NE	57A7	518	321	32.50	64.00			150
25	1	WN 2.172 150LB S80 RE A105N	NE	45A7	518	320	33.60	65.00			150
50	1	WN 8 150LB S80 RE A105N	NE	447A4	520	318	34.90	66.30			151
4	1	WN 10 150LB S80 RE A105N	NE	149R6	515	339	32.90	69.00			150
				9A47	517	314	32.50	63.00			148

**COMPOSICION QUIMICA - STEEL MARKERS LADLE ANALYSIS - ANALYSE CHIMIQUE**

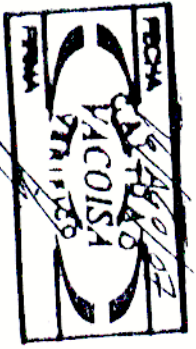
C %	Si %	Mn %	P %	S %	Cr %	Ni %	Mo %	Nb %	V %	Cu %	CEQ %
0.150	0.220	1.160	0.014	0.001	0.080	0.070	0.040	0.007	0.001	0.180	0.384
0.180	0.290	0.830	0.018	0.007	0.100	0.070	0.020	0.007	0.001	0.270	0.365
0.180	0.250	0.840	0.025	0.005	0.140	0.070	0.020	0.007	0.002	0.370	0.370
0.180	0.270	0.840	0.029	0.007	0.210	0.220	0.070	0.007	0.005	0.380	0.418
0.180	0.220	0.840	0.014	0.002	0.070	0.080	0.020	0.007	0.001	0.220	0.368
0.180	0.210	0.850	0.011	0.002	0.080	0.080	0.020	0.007	0.001	0.190	0.356
0.180	0.210	0.870	0.014	0.006	0.070	0.080	0.020	0.007	0.001	0.200	0.372
0.200	0.230	0.940	0.017	0.005	0.110	0.080	0.040	0.007	0.002	0.270	0.394
0.180	0.210	0.830	0.010	0.001	0.070	0.070	0.020	0.007	0.001	0.230	0.357

- Las dimensiones y la condición superficial se hallaron satisfactorias
- Dimension and surface condition were found acceptable
- Las dimensiones et états de surface sont satisfaisants
- Les mesures citées ci-dessus complient les normes applicables
- Manufacturing requirements are satisfied
- Las normas aplicables sont respectées

EL INSPECTOR  
 Works Inspector - L'inspecteur



SERVICIOS: NORMALIZADO A 300 C Y ENFRIADO EN AIRE EN CALMA







# Material Test Report

1/3



Heat Code: RSY  
NEMAT: 6969  
O.C. - 4422  
PART - 07

6A-0077

An Ameri-Forge Group Company  
13770 Industrial Road  
Houston, TX 77015

ISO 9001:2000 Certified  
Sales: (713) 868-4421 Fax: (713) 455-8366

TUBE AMERICA, INC.	PO: 12260	Sales Order: 48497	Sales Ord Line: 24
6550 BINGLE ROAD	Part Desc: FLG 14.00 0150 WN RF STD / A105 NHT COFFR		
HOUSTON, TX 77092-1107	Part No: 0151914101-0020F	Qty Shipped: 10	
	Vendor: ARKANSAS	Vendor Heat Code: B-195	
Spec: ASTM A 105/A 105M-03/ASME SA 105/SA 105M-04, Mell Practice EF			

	C	Mn	P	S	SI	Cu	NI	Cr	Mo	V	Cb
Ladle:	0.19	0.87	0.009	0.017	0.21	0.16	0.07	0.11	0.020	0.038	0.000
Product:											
	C.E.	CuNiCrMo	CrMo								
Ladle:	0.38	0.36	0.13								
Product:											

Mechanical Properties	Heat Treatment	Other Results
Test Lab: AFG Test Bar Size: SACRIFICIAL BHN: 170-170 Elg (%): 30.0 RA (%): 55.0 Tensile Specimen Size: 0.500 Tensile (ksi): 81.2 Yield (ksi): 51.1 Gauge Length: 2.00		

### Comments

No Weld repair performed. Mercury free.  
Product compliant with NACE MRO175, latest Ed.



This report is issued in compliance with the requirements of EN10204 3.1.b / ISO 10474 3.1.b.

MTR No. 58166  
MTR Date. 4/6/2005

*S. Drozdowski*  
Stan Drozdowski - AFG Test Lab Manager