



EXCELENCIA EN CALIDAD

Acería Ramos Arizpe

CARRETERA MONCLOVA KM 4 NUMERO 2125
 TRAMO SANTA CRUZ OJO CALIENTE
 C.P./ZIP RAMOS ARIZPE, COAHUILA
 Tel/Phone (+52) 01 818 368 1111
 MX 01 800 021 3322, USA 1800 332 2376

CERTIFICADO DE CALIDAD / CERTIFICATE OF TEST AND ANALYSIS

No. Certificado / Certificate No:	136091 - 21909994
Fecha / Date:	30/01/2019

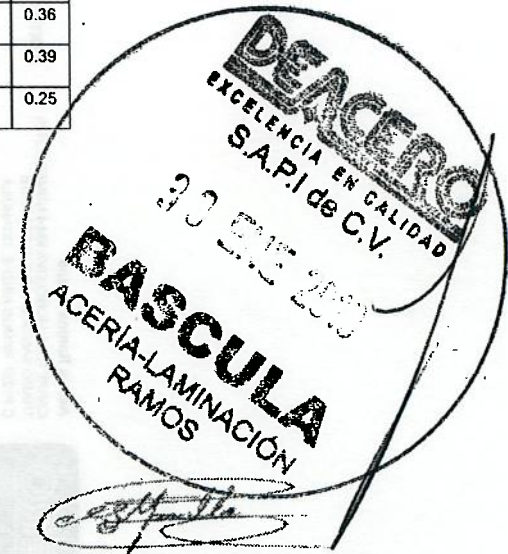
Hecho en México / Made in Mexico

DATOS DEL CLIENTE / SOLD TO		CLIENTE CONSIGNADO / SHIP TO		DATOS DEL EMBARQUE / SHIPPING INFORMATION	
Cliente / Customer: PLESA ANAHUAC Y CIAS SA DE CV		Cliente / Customer: MATRIZ TULTITLAN		Núm. Viaje / Travel No: 136091	
Dirección / Address: AV VALLE DE LAS ALAMEDAS 66 0 SAN FRANCISCO CHILPAN		Dirección / Address: AV VALLE DE LAS ALAMEDAS 66 0 66 SAN FRANCISCO CHILPAN		Núm. Factura / Invoice No: FQ77779	
Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO	Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO	Pedido / Customer Order No: 21909994	
Teléfono / Phone: 10838570		Pais / Country: MEXICO C.P./ZIP 54940		Núm. Plan / Shipping Plan: 145376	
Correo Electrónico / eMail:				Fecha Embarque / Date: 30/01/2019	
				Orden de Compra / Purchase Order: 27934	

COMPOSICIÓN QUÍMICA / CHEMICAL COMPOSITION (% PESO / WEIGHT)																			
Colada / Heat	Secuencia / Sequence	Clave / Code	Producto / Description of Goods	% C	% Mn	% Si	% P	% S	% Cu	% Cr	% Ni	% Mo	% Sn	% Ti	% V	PPM Nb	PPM N	CE	
				AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG
33508	742	60227	SOLERA 1 1/2" x 3/16" A-36 P 6.10m 2.0T	0.21	0.79	0.20	0.011	0.010	0.24	0.07	0.08	0.018	0.011	0.001	0.004	16	85	0.36	
33509	740	60227	SOLERA 1 1/2" x 3/16" A-36 P 6.10m 2.0T	0.21	0.77	0.24	0.010	0.005	0.21	0.07	0.07	0.018	0.012	0.001	0.004	17	84	0.36	
33510	736	60227	SOLERA 1 1/2" x 3/16" A-36 P 6.10m 2.0T	0.21	0.76	0.23	0.011	0.010	0.24	0.07	0.08	0.025	0.012	0.001	0.004	16	86	0.36	
33510	738	60227	SOLERA 1 1/2" x 3/16" A-36 P 6.10m 2.0T	0.21	0.76	0.23	0.011	0.010	0.24	0.07	0.08	0.025	0.012	0.001	0.004	16	86	0.36	
33512	739	60227	SOLERA 1 1/2" x 3/16" A-36 P 6.10m 2.0T	0.20	0.76	0.23	0.014	0.011	0.21	0.08	0.06	0.017	0.009	0.001	0.004	12	85	0.35	
33514	733	60222	SOLERA 1" x 3/16" A-36 P 6.10m 2.0T	0.21	0.76	0.22	0.014	0.005	0.27	0.10	0.07	0.016	0.014	0.001	0.004	14	88	0.35	
33516	731	60222	SOLERA 1" x 3/16" A-36 P 6.10m 2.0T	0.22	0.79	0.20	0.012	0.005	0.29	0.08	0.07	0.016	0.014	0.001	0.004	12	84	0.37	
33151	772	60281	ANGULO LI 1" x 1" x 1/8" A-36 P 6.10m 1.1T	0.21	0.72	0.19	0.008	0.004	0.28	0.08	0.09	0.018	0.011	0.001	0.004	31	85	0.35	
105312	39988	60291	ANGULO LI 2" x 2" x 1/4" A-36 P 6.10m 2.0T	0.22	0.75	0.18	0.006	0.014	0.18	0.08	0.06	0.017	0.011	0.001	0.005	33	0	0.36	
32919	39441	79955	ANGULO LI 6" x 6" x 1/2" A36/529-50 12.20m 4.0T	0.22	0.93	0.22	0.007	0.005	0.19	0.08	0.08	0.020	0.008	0.008	0.010	108	96	0.39	
31229	39451	78049	ANGULO LI 6" x 6" x 5/8" A36/A572-50 12.20m 4.0T	0.07	1.02	0.22	0.008	0.010	0.11	0.06	0.04	0.014	0.007	0.011	0.005	328	80	0.25	

PROPIEDADES MECÁNICAS / MECHANICAL PROPERTIES												
Colada / Heat	Secuencia / Sequence	Clave / Code	Producto / Description of Goods	Calibre / Diameter	Cantidad / Bundle	RT	TS	% Elong / Elong	LF	YS	P. Doblez / Bend Test	
						kg/mm ² AVG	PSI AVG	AVG	kg/mm ² AVG	PSI AVG		
33508	742	60227	SOLERA 1 1/2" x 3/16" A-36 P 6.10m 2.0T	1 1/2" x 3/16"	5	43.5	62000.1	30.5	32.4	46162.1	Cumple / Successfully	
33509	740	60227	SOLERA 1 1/2" x 3/16" A-36 P 6.10m 2.0T	1 1/2" x 3/16"	1	50.8	72359.5	31.0	36.7	52352.1	Cumple / Successfully	
33510	736	60227	SOLERA 1 1/2" x 3/16" A-36 P 6.10m 2.0T	1 1/2" x 3/16"	1	52.7	75091.7	33.5	37.2	52964.0	Cumple / Successfully	
33510	738	60227	SOLERA 1 1/2" x 3/16" A-36 P 6.10m 2.0T	1 1/2" x 3/16"	1	51.2	72957.2	31.5	36.7	52224.1	Cumple / Successfully	

Certificamos que este material ha sido producido, inspeccionado y probado de acuerdo a las normas de fabricación del acero aplicables a la ASTM A36-2008, A529-2005 (re aprobada el 2009), A572-2012 y A992-2011 y a las normas dimensionales NMX B252, ASTM A6/A6M-2012. / We certify that this material has been produced, inspected and tested according to standards applicable steelmaking to ASTM A36-2008, A529-2005 (Reapproved 2009), A572-2012 y A992-2011, and the dimensional standards NMX B252, ASTM A6/A6M-2012.



GUSTAVO GABRIEL MANCILLA GARZA
 Gerente de Aseguramiento de Calidad / Quality Assurance Manager



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PROPIEDADES MECANICAS / MECHANICAL PROPERTIES

Colada / Heat	Secuencia / Sequence	Clave / Code	Producto / Description of Goods	Calibre / Diameter	Cantidad / Bundle	RT kg/mm ² AVG	TS PSI AVG	% Elong / Elong AVG	LF kg/mm ² AVG	YS PSI AVG	P. Doblez / Bend Test
33512	739	60227	SOLERA 1 1/2" x 3/16" A-36 P 6.10m 2.0T	1 1/2" x 3/16"	2	52.1	74152.5	31.5	36.2	51512.6	Cumple / Successfully
33514	733	60222	SOLERA 1" x 3/16" A-36 P 6.10m 2.0T	1" x 3/16"	1	42.2	60064.8	24.4	32.0	45649.8	Cumple / Successfully
33516	731	60222	SOLERA 1" x 3/16" A-36 P 6.10m 2.0T	1" x 3/16"	1	43.3	61715.5	24.7	32.5	46290.1	Cumple / Successfully
33151	772	60281	ANGULO LI 1" x 1" x 1/8" A-36 P 6.10m 1.1T	1" x 1" x 1/8"	1	41.6	59196.8	32.3	26.2	37282.6	Cumple / Successfully
105312	39988	60291	ANGULO LI 2" x 2" x 1/4" A-36 P 6.10m 2.0T	2" x 2" x 1/4"	2	51.4	73241.8	34.3	29.3	41765.0	Cumple / Successfully
32919	39441	79955	ANGULO LI 6" x 6" x 1/2" A36/529-50 12.20m 4.0T	6" x 6" x 1/2"	1	53.4	75988.2	32.9	38.7	55070.1	Cumple / Successfully
31229	39451	78049	ANGULO LI 6" x 6" x 5/8" A36/A572-50 12.20m 4.0T	6" x 6" x 5/8"	1	50.3	71690.7	30.5	44.0	62711.6	Cumple / Successfully



Certificamos que este material ha sido producido, inspeccionado y probado de acuerdo a las normas de fabricación del acero aplicables a la ASTM A36-2008, A529-2005 (re aprobada el 2009), A572-2012 y A992-2011 y a las normas dimensionales NMX B252, ASTM A6/A6M-2012. / We certify that this material has been produced, inspected and tested according to standards applicable steelmaking to ASTM A36-2008, A529-2005 (Reapproved 2009), A572-2012 y A992-2011, and the dimensional standards NMX B252, ASTM A6/A6M-2012.

GUSTAVO GABRIEL MAÑILLA GARZA
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