



Aceria 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:	120175 - 21555189
Fecha / Date:	30/05/2018

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: PLESA ANAHUAC Y CIAS SA DE CV		Núm. Viaje / Travel No: 120175	
Dirección / Address: AV VALLE DE LAS ALAMEDAS 66 0 SAN FRANCISCO CHILPAN		Dirección / Address: CALLE AVE VALLE DE LAS ALAMEDAS NO. 66-O SAN FRANCISCO CHILPAN		Núm. Factura / Invoice No: FQ67043	
Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO	Ciudad / City: TULTITLAN	Estado / State: EDO. DE MEXICO	Pedido / Customer Order No: 21555189	
Teléfono / Phone: 10838570		País / Country: MEXICO C.P./ZIP 54940		Núm. Plan / Shipping Plan: 128638	
Correo Electrónico / eMail:				Fecha Embarque / Date: 30/05/2018	
				Orden de Compra / Purchase Order: 26905	

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
28014	10852	60227	SOLERA 1 1/2" x 3/16" A-36 P 6.10m 2.0T	0.15	0.68	0.18	0.011	0.007	0.22	0.06	0.09	0.020	0.011	0.001	0.006	12	92	0.28
28015	10851	60227	SOLERA 1 1/2" x 3/16" A-36 P 6.10m 2.0T	0.14	0.69	0.19	0.016	0.006	0.25	0.08	0.10	0.024	0.012	0.001	0.004	12	89	0.28
28708	10775	60224	SOLERA 1 1/4" x 1/8" A-36 P 6.10m 2.0T	0.14	0.67	0.20	0.007	0.008	0.22	0.06	0.10	0.024	0.013	0.001	0.003	10	93	0.26
28512	10540	60225	SOLERA 1 1/4" x 3/16" A-36 P 6.10m 2.0T	0.14	0.67	0.19	0.007	0.007	0.23	0.08	0.10	0.025	0.010	0.000	0.004	22	94	0.27
26667	10623	60221	SOLERA 1" x 1/8" A-36 P 6.10m 2.0T	0.14	0.68	0.19	0.009	0.007	0.22	0.09	0.09	0.020	0.011	0.001	0.004	32	80	0.27
26667	10625	60221	SOLERA 1" x 1/8" A-36 P 6.10m 2.0T	0.14	0.68	0.19	0.009	0.007	0.22	0.09	0.09	0.020	0.011	0.001	0.004	32	80	0.27
28339	35897	60238	SOLERA 4" x 1/4" A-36 P 6.10m 2.0T	0.20	0.90	0.19	0.007	0.004	0.17	0.04	0.08	0.014	0.009	0.008	0.012	82	98	0.36
28352	35879	60239	SOLERA 4" x 3/8" A-36 P 6.10m 2.0T	0.20	0.91	0.21	0.007	0.010	0.20	0.07	0.10	0.020	0.012	0.008	0.013	80	102	0.37
28353	35878	60239	SOLERA 4" x 3/8" A-36 P 6.10m 2.0T	0.20	0.91	0.21	0.005	0.009	0.20	0.07	0.10	0.020	0.010	0.009	0.013	80	96	0.37
29460	36462	60244	SOLERA 6" x 1/2" A-36 P 6.10m 2.0T	0.21	0.90	0.19	0.004	0.008	0.15	0.04	0.07	0.015	0.007	0.008	0.014	80	93	0.37

PROPIEDADES MECÁNICAS / MECHANICAL PROPERTIES

Colada / Heat	Secuencia / Sequence	Clave / Code	Producto / Description of Goods	Calibre / Diameter	Cantidad / Bundle	RT kg/mm ²	TS PSI	% Elong / Elong	LF kg/mm ²	YS PSI	P. Doble / Bend Test
						AVG	AVG	AVG	AVG	AVG	
28014	10852	60227	SOLERA 1 1/2" x 3/16" A-36 P 6.10m 2.0T	1 1/2" x 3/16"	1	41.2	58641.8	30.5	26.4	37652.5	Cumple / Successfully
28015	10851	60227	SOLERA 1 1/2" x 3/16" A-36 P 6.10m 2.0T	1 1/2" x 3/16"	4	51.1	72786.4	31.5	36.3	51654.9	Cumple / Successfully
28708	10775	60224	SOLERA 1 1/4" x 1/8" A-36 P 6.10m 2.0T	1 1/4" x 1/8"	2	44.8	63850.0	30.5	29.3	41736.5	Cumple / Successfully
28512	10540	60225	SOLERA 1 1/4" x 3/16" A-36 P 6.10m 2.0T	1 1/4" x 3/16"	2	48.4	68873.2	33.9	29.4	41893.1	Cumple / Successfully
26667	10623	60221	SOLERA 1" x 1/8" A-36 P 6.10m 2.0T	1" x 1/8"	1	49.6	70694.6	24.5	31.2	44397.6	Cumple / Successfully
26667	10625	60221	SOLERA 1" x 1/8" A-36 P 6.10m 2.0T	1" x 1/8"	4	45.3	64575.7	28.7	29.3	41793.5	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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						AVG	AVG	AVG	AVG	AVG	
28339	35897	60238	SOLERA 4" x 1/4" A-36 P 6.10m 2.0T	4" x 1/4"	4	41.2	58698.7	30.5	26.9	38406.7	Cumple / Successfully
28352	35879	60239	SOLERA 4" x 3/8" A-36 P 6.10m 2.0T	4" x 3/8"	3	47.3	67379.0	24.7	29.4	41907.3	Cumple / Successfully
28353	35878	60239	SOLERA 4" x 3/8" A-36 P 6.10m 2.0T	4" x 3/8"	1	47.7	67877.1	24.7	30.7	43757.2	Cumple / Successfully
29460	36462	60244	SOLERA 6" x 1/2" A-36 P 6.10m 2.0T	6" x 1/2"	2	50.5	71904.1	30.5	38.5	54913.5	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.

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