



EXCELENCIA EN CALIDAD

Aceria Ramos Arizpe  
 CARRETERA MONCLOVA KM 4 NUMERO 2125  
 TRAMO SANTA CRUZ OJO CALIENTE  
 C.P./ZIP RAMOS ARIZPE, COAHUILA  
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 MX 01 800 021 3322, USA 1800 332 2376

CERTIFICADO DE CALIDAD / CERTIFICATE OF TEST  
 AND ANALYSIS

No. Certificado / Certificate No.	188213 - 22984055
Fecha / Date	21/11/2020

Hecho en Mexico / Made in Mexico

PROPIEDADES MECANICAS / MECHANICAL PROPERTIES

Colada / Heat	Secuencia / Sequence	Clase / Code	Producto / Description of Goods	Calibre / Diameter	Cantidad / Burnde	RT AVG	TS AVG	% Elong / Elong AVG	LF AVG	YS AVG	P. Doblez / Bend Test
46121	50800	60238	SOLERA 4" x 1/4" A-36 6.10m 2.0T NMX B252/ASTM A6	4" x 1/4"	2	51.2	72955.7	32.8	39.9	56907.1	Cumple / Successfully
44990	48686	60246	SOLERA 6" x 3/4" A-36 6.10m 2.0T NMX B252/ASTM A6	6" x 3/4"	1	52.9	75372.0	32.8	40.5	57667.0	Cumple / Successfully
46117	9496	60288	ANGULO L1 1/2" x 1 1/2" x 1/4" A-36 P 6.10m 2.0T	1 1/2" x 1 1/2" x 1/4"	2	45.0	64042.1	30.2	32.2	45893.1	Cumple / Successfully
45917	9418	60340	ANGULO L1 1/2" x 1 1/2" x 1/8" A36/529-50 12.20m 4.0T	1 1/2" x 1 1/2" x 1/8"	1	50.1	71296.5	28.4	40.8	58066.9	Cumple / Successfully
46055	9438	60341	ANGULO L1 1/2" x 1 1/2" x 3/16" A36/529-50 12.20m 4.0T	1 1/2" x 1 1/2" x 3/16"	1	50.1	71403.2	28.4	38.8	55260.7	Cumple / Successfully
45761	9185	65004	ANGULO L1 1/4" x 1 1/4" x 0.109" A-36 6.10m 1.0T	1 1/4" x 1 1/4" x 0.109"	2	54.9	78131.2	22.4	40.5	57742.4	Cumple / Successfully
45761	9187	65004	ANGULO L1 1/4" x 1 1/4" x 0.109" A-36 6.10m 1.0T	1 1/4" x 1 1/4" x 0.109"	1	54.7	77896.4	22.2	43.4	61883.4	Cumple / Successfully
46209	9615	60290	ANGULO L1 2" x 2" x 3/16" A-36 6.10m 2.0T	2" x 2" x 3/16"	3	51.3	73093.8	22.3	38.6	54927.8	Cumple / Successfully
46209	9616	60290	ANGULO L1 2" x 2" x 3/16" A-36 6.10m 2.0T	2" x 2" x 3/16"	5	50.6	72027.9	22.3	37.8	53883.3	Cumple / Successfully
46209	9617	60290	ANGULO L1 2" x 2" x 3/16" A-36 6.10m 2.0T	2" x 2" x 3/16"	2	49.5	70518.1	22.4	38.1	54226.2	Cumple / Successfully
46214	9621	60290	ANGULO L1 2" x 2" x 3/16" A-36 6.10m 2.0T	2" x 2" x 3/16"	1	49.2	70018.7	30.6	39.0	55573.8	Cumple / Successfully

OTROS DATOS ADICIONALES / ADDITIONAL INFORMATION

Acero fundido y colado en: México / Steel melted and poured in Mexico

Certificamos que este material ha sido producido, inspeccionado y probado de acuerdo a las normas de fabricacion 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.



JUAN ALEJANDRO GALVAN GARCIA  
 Gerente de Aseguramiento de Calidad / Quality Assurance Manager



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 AND ANALYSIS**

No. Certificado / Certificate No.	188213 - 22984055
Fecha / Date	21/11/2020

Hecho en México / Made in Mexico

**DATOS DEL CLIENTE / SOLD TO**

**CLIENTE CONSIGNADO / SHIP TO**

Cliente / Customer: PLESA ANAHUAC Y CIAS SA DE CV  
 Dirección / Address: AV VALLE DE LAS ALAMEDAS 66 0 SAN FRANCISCO CHILPAN  
 Ciudad / City: TULTITLAN Estado / State: EDO. DE MEXICO  
 País / Country: MEXICO C.P./ZIP 54940  
 Teléfono / Phone: 10838570 Correo Electrónico / Email: rceballos@pleasa.com.mx

Cliente / Customer: MATRIZ TULTITLAN  
 Dirección / Address: AV VALLE DE LAS ALAMEDAS 66 0 66 SAN FRANCISCO CHILPAN  
 Ciudad / City: TULTITLAN Estado / State: EDO. DE MEXICO

Pedido / Customer Order No: 22984055  
 Núm. Plan / Shipping Plan: 203105  
 Fecha Embarque / Date: 21/11/2020  
 Orden de Compra / Purchase Order: 30489

**COMPOSICION QUIMICA / CHEMICAL COMPOSITION (% PESO / WEIGHT)**

Cola da / 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
46103	50799	60238	SOLERA 4" x 1/4" A-36 6.10m 2.0T NMX B252/ASTM A6	0.21	0.74	0.21	0.009	0.006	0.25	0.08	0.07	0.024	0.010	0.001	0.000	16	94	0.36
46121	50800	60238	SOLERA 4" x 1/4" A-36 6.10m 2.0T NMX B252/ASTM A6	0.21	0.70	0.18	0.007	0.004	0.21	0.07	0.05	0.018	0.011	0.001	0.002	8	87	0.34
44990	49666	60246	SOLERA 6" x 3/4" A-36 6.10m 2.0T NMX B252/ASTM A6	0.22	0.73	0.22	0.012	0.005	0.30	0.09	0.09	0.022	0.010	0.001	0.001	2	80	0.37
46117	9496	60288	ANGULO L1 1/2" x 1 1/2" x 1/4" A-36 P 6.10m 2.0T	0.20	0.73	0.21	0.007	0.015	0.24	0.11	0.05	0.019	0.009	0.001	0.001	2	88	0.34
45917	9418	60340	ANGULO L1 1/2" x 1 1/2" x 1/8" A36/529-50 12.20m 4.0T	0.22	0.74	0.20	0.009	0.006	0.29	0.07	0.06	0.023	0.013	0.001	0.002	20	89	0.30
46055	9438	60341	ANGULO L1 1/2" x 1 1/2" x 3/16" A36/529-50 12.20m 4.0T	0.20	0.70	0.18	0.008	0.008	0.26	0.11	0.06	0.021	0.013	0.001	0.000	14	103	0.34
45761	9185	65004	ANGULO L1 1/4" x 1 1/4" x 0.109" A-36 6.10m 1.0T	0.23	0.79	0.21	0.011	0.013	0.11	0.09	0.05	0.013	0.004	0.001	0.004	7	96	0.38
45761	9187	65004	ANGULO L1 1/4" x 1 1/4" x 0.109" A-36 6.10m 1.0T	0.23	0.79	0.21	0.011	0.013	0.11	0.09	0.05	0.013	0.004	0.001	0.004	7	96	0.38
46209	9615	60290	ANGULO L1 2" x 2" x 3/16" A-36 6.10m 2.0T	0.22	0.75	0.24	0.012	0.012	0.26	0.11	0.06	0.020	0.011	0.001	0.003	24	97	0.37
46209	9616	60290	ANGULO L1 2" x 2" x 3/16" A-36 6.10m 2.0T	0.22	0.75	0.24	0.012	0.012	0.26	0.11	0.06	0.020	0.011	0.001	0.003	24	97	0.37
46209	9617	60290	ANGULO L1 2" x 2" x 3/16" A-36 6.10m 2.0T	0.22	0.75	0.24	0.012	0.012	0.26	0.11	0.06	0.020	0.011	0.001	0.003	24	97	0.37
46214	9621	60290	ANGULO L1 2" x 2" x 3/16" A-36 6.10m 2.0T	0.21	0.73	0.22	0.016	0.007	0.24	0.12	0.06	0.021	0.010	0.001	0.004	20	97	0.35

**PROPIEDADES MECANICAS / MECHANICAL PROPERTIES**

Cola da / Heat	Secuencia / Sequence	Clave / Code	Producto / Description of Goods	Calibre / Diameter	Cantidad / Bundle	RT kg/mm <sup>2</sup> AVG	TS PSI AVG	% Elong / Elong AVG	LF kg/mm <sup>2</sup> AVG	YS PSI AVG	P. Doblez / Bend Test
46103	50799	60238	SOLERA 4" x 1/4" A-36 6.10m 2.0T NMX B252/ASTM A6	4" x 1/4"	1	51.2	72955.7	32.8	39.9	56907.1	Cumple / Successfully

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*Juan Alejandro Galvan Garcia*

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