



Aceria Ramos Arizpe
 CARRETERA MONCLOVA KM 4 NUMERO 2125.
 TERA
 C.P./ZIP RAMOS ARIZPE COAHUILA
 Tel./Phone (+52) 01 818 366 1117
 MX 01 800 021 3322, USA 1800 332 2376

CERTIFICADO DE CALIDAD / CERTIFICATE OF TEST
 AND ANALYSIS

No. Certificado / Certificate No.	57394 - 1116/486
Fecha / Date.	19/11/2015

Hecho en Mexico / Made in Mexico

DATOS DEL CLIENTE / SOLD TO		CLIENTE CONSIGNADO / SHIP TO		DATOS DEL EMBARQUE / SHIPPING INFORMATION	
Cliente / Customer ACEROMEX SA DE CV		Cliente / Customer TULTITLAN		Num. Vago / Travel No. 57394	
Direccion / Address CARRETERA LIBRE FEDERAL MONTERREY Y LAREDO KM 27 CENTRO		Direccion / Address VIA JOSE LOPEZ PORTILLO # 12 BIS COL. SAN FRANCISCO CHILPA		Num. Factura / Invoice No. TQ32681	
Ciudad / City CIENEGA DE FLORES	Estado / State NL	Ciudad / City TULTITLAN	Estado / State EDO. DE MEXICO	Pedido / Customer Order No. 1116/486	
Telefono / Phone 81559500	Pais / Country MEXICO C.P./ZIP 83550			Num. Plan / Shipping Plan 61908	
Correo Electronico / eMail				Fecha Embarque / Date 19/11/2015	
				Orden de Compra / Purchase Order 4500150854	

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	% Al	% V	PPM N	PPM N	CF
				AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG
9038	5107	60227	SOLEIRA 1 1/2" x 3 1/8" A 36 6 10m 2.01	0.14	0.05	0.18	0.009	0.003	0.26	0.09	0.07	0.018	0.010	0.001	0.005	11	98	0.76
9213	5108	60227	SOLEIRA 1 1/2" x 3 1/8" A 36 6 10m 2.01	0.15	0.06	0.14	0.008	0.001	0.29	0.07	0.07	0.013	0.011	0.001	0.006	18	82	0.78
9720	4843	60227	SOLEIRA 1 1/2" x 3 1/8" A 36 6 10m 2.01	0.22	0.77	0.14	0.009	0.005	0.16	0.07	0.08	0.020	0.012	0.005	0.005	7	0	0.73
10049	4848	60227	SOLEIRA 1 1/2" x 3 1/8" A 36 6 10m 2.01	0.08	0.09	0.22	0.006	0.009	0.10	0.04	0.04	0.011	0.008	0.010	0.004	315	90	0.80
10740	5111	60227	SOLEIRA 1 1/2" x 3 1/8" A 36 6 10m 2.01	0.23	0.72	0.18	0.006	0.005	0.14	0.05	0.07	0.016	0.010	0.001	0.008	13	99	0.76
12606	4823	60225	SOLEIRA 1 1/2" x 3 1/8" A 36 6 10m 2.01	0.18	0.67	0.21	0.010	0.001	0.24	0.16	0.09	0.021	0.012	0.001	0.008	16	78	0.70
12608	4824	60225	SOLEIRA 1 1/2" x 3 1/8" A 36 6 10m 2.01	0.18	0.67	0.21	0.010	0.001	0.24	0.14	0.09	0.021	0.012	0.001	0.008	16	78	0.70
12609	4825	60225	SOLEIRA 1 1/2" x 3 1/8" A 36 6 10m 2.01	0.18	0.67	0.21	0.010	0.001	0.24	0.14	0.09	0.021	0.012	0.001	0.008	16	78	0.70
12688	4826	60225	SOLEIRA 1 1/2" x 3 1/8" A 36 6 10m 2.01	0.18	0.67	0.21	0.010	0.001	0.24	0.14	0.09	0.021	0.012	0.001	0.008	16	78	0.70
13572	5107	60219	SOLEIRA 3/4" x 1 1/8" A 36 6 10m 2.01	0.16	0.73	0.19	0.011	0.008	0.21	0.08	0.08	0.023	0.012	0.001	0.004	16	90	0.78
13574	5103	60219	SOLEIRA 3/4" x 1 1/8" A 36 6 10m 2.01	0.15	0.69	0.18	0.011	0.008	0.20	0.08	0.08	0.020	0.011	0.001	0.007	16	104	0.78
11748	3132	60120	SOLEIRA 3/4" x 3 1/8" A 36 6 10m 2.01	0.16	0.67	0.18	0.010	0.006	0.20	0.07	0.07	0.018	0.010	0.001	0.007	16	80	0.78
13453	5129	60220	SOLEIRA 3/4" x 3 1/8" A 36 6 10m 2.01	0.16	0.65	0.19	0.017	0.008	0.20	0.11	0.08	0.022	0.015	0.001	0.004	10	0	0.78
13453	5130	60220	SOLEIRA 3/4" x 3 1/8" A 36 6 10m 2.01	0.15	0.65	0.19	0.017	0.008	0.20	0.11	0.08	0.022	0.015	0.001	0.004	10	0	0.78

PROPIEDADES MECÁNICAS / MECHANICAL PROPERTIES

Colada / Heat	Secuencia / Sequence	Clave / Code	Producto / Description of Goods	Grueso / Diameter	Carburo / Hardness	RT kg/mm ² AVG	TS PSI AVG	% Elong / Elong AVG	LF kg/mm ² KJ/m ² AVG	YS PSI AVG	P. Doblez / Bend Test
9038	5107	60227	SOLEIRA 1 1/2" x 3 1/8" A 36 6 10m 2.01	1 1/2" x 3 1/8"	3	42.4	60426.3	24.6	29.6	42086.4	Completamente Satisfactorio
9213	5108	60227	SOLEIRA 1 1/2" x 3 1/8" A 36 6 10m 2.01	1 1/2" x 3 1/8"	2	43.0	62574.7	24.7	30.3	43324.2	Completamente Satisfactorio
8716	4846	60227	SOLEIRA 1 1/2" x 3 1/8" A 36 6 10m 2.01	1 1/2" x 3 1/8"	1	42.8	60952.7	28.3	29.2	41574.2	Completamente Satisfactorio

Certificamos que este material ha sido producido, inspeccionado y probado de acuerdo a las normas de fabricación del acero aplicables a ASTM A36-2008, A529-2005 (re aprobada en 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 and A992-2011, and the dimensional standards NMX B252, ASTM A6/A6M-2012.

FRANCISCO JAVIER VARGAS S.O.C
 Gerente de Aseguramiento de Calidad / Quality Assurance Manager





Aceria Ramos Arizpe
 CARRETERA MONCLOVA KM 4 NUMERO 2125
 TUA
 C.P. ZIP RAMOS ARIZPE, COAHUILA
 Tel/Phone (+52) 01 818 368 1111
 MX 01 800 021 3322, USA 1 800 332 2376

CERTIFICADO DE CALIDAD / CERTIFICATE OF TEST AND ANALYSIS

No. Certificado / Certificate No	57394 - 1118/486
Fecha / Date	19/11/2015

Hecho en México / Made in Mexico

EXCELENCIA EN CALIDAD

PROPIEDADES MECÁNICAS / MECHANICAL PROPERTIES											
Calentamiento / Heat	Secuencia / Sequence	Cave / Code	Producto / Description of Goods	Calibre / Diameter	Cantidades / Bunches	RT / kg/mm ² / AVG	TS / PSI / AVG	% Elong / AVG	U ₁ / kg/mm ² / AVG	YS / PSI / AVG	P. Doble / Bend Test
10248	4846	60227	SOLERA 1.12 x 3.00 A-36 6.10m 2.01	1.12" x 3.16"	1	43.5	61977.1	26.1	28.1	40039.1	Cumple / Successfully
10248	5111	60227	SOLERA 1.12 x 3.16 A-36 6.10m 2.01	1.12" x 3.16"	1	44.0	62666.1	24.8	30.4	43352.7	Cumple / Successfully
12688	4823	60226	SOLERA 1.16 x 3.16 A-36 6.10m 2.01	1.16" x 3.16"	1	44.9	64011.7	28.1	33.0	47066.2	Cumple / Successfully
12688	4824	60226	SOLERA 1.16 x 3.16 A-36 6.10m 2.01	1.16" x 3.16"	4	42.3	60255.5	28.2	29.1	41417.7	Cumple / Successfully
12688	4825	60225	SOLERA 1.16 x 3.16 A-36 6.10m 2.01	1.16" x 3.16"	1	42.3	60255.5	25.3	30.1	42840.5	Cumple / Successfully
12688	4826	60225	SOLERA 1.16 x 3.16 A-36 6.10m 2.01	1.16" x 3.16"	2	44.3	63072.7	28.1	30.4	43310.0	Cumple / Successfully
13572	5182	60219	SOLERA 3/4" x 1 1/8" A-36 6.10m 2.01	3/4" x 1 1/8"	4	51.0	72667.3	34.0	35.2	50125.2	Cumple / Successfully
13574	5183	60219	SOLERA 3/4" x 1 1/8" A-36 6.10m 2.01	3/4" x 1 1/8"	1	52.5	74753.9	35.7	35.5	50708.5	Cumple / Successfully
11749	5132	60220	SOLERA 3/4" x 3/16" A-36 6.10m 2.01	3/4" x 3/16"	2	53.2	75806.7	28.4	40.7	56021.7	Cumple / Successfully
13453	5129	60220	SOLERA 3/4" x 3/16" A-36 6.10m 2.01	3/4" x 3/16"	3	42.0	59814.5	32.3	29.2	40194.1	Cumple / Successfully
13453	5130	60220	SOLERA 3/4" x 3/16" A-36 6.10m 2.01	3/4" x 3/16"	1	41.8	59586.8	32.3	31.8	45287.7	Cumple / Successfully

Certificamos que este material ha sido producido, inspeccionado y probado de acuerdo a las normas de fabricación de acero aplicables a la ASTM A36-2009, A36-2009 (re aprobada el 2009), A72-2012 y A992-2011 y a las normas dimensionales NMX B252, ASTM A670M-2012. We certify that this material has been produced, inspected and tested according to the standards applicable steel making to ASTM A36-2009, A36-2009 (Reapproved 2009), A72-2012 and A992-2011, and the dimensional standards NMX B252, ASTM A670M-2012.



[Signature]

FRANCISCO JAVIER VARGAS SOTO
 Gerente de Asesoramiento de Calidad / Quality Assurance Manager





EXCELENCIA EN CALIDAD

Aceria Ramos Arizpe
CARRETERA MONCLOVA KM 4 NUMERO 2126
TRA
C.P./ZIP: RAMOS ARIZPE, COAHUILA
Tel./Phone (+52) 01 818 368 1111
MX 01 800 021 5322 USA 1800 332 2376

CERTIFICADO DE CALIDAD / CERTIFICATE OF TEST
AND ANALYSIS

No. Certificado / Certificate No.	57354 - 113/486
Fecha / Date	15/11/2015

Hecho en México / Made in Mexico



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, A579-2012 (re aprobada en 2009), A572-2012 y A992-2011 y a las normas dimensionales NMX B252, ASTM A6/ARM-2012 / We certify that this material has been produced, inspected and tested according to standards applicable steel making to ASTM A36-2008, A579-2009 (Reapproved 2009), A572-2012 y A992-2011, and the dimensional standards NMX B252, ASTM A6/ARM-2012

FRANCISCO JAVIER VARGAS SOTO
Coordinador de Aseguramiento de Calidad / Quality Assurance Manager

