



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 DE PRODUCTO TERMINADO
 / CERTIFICATE MATERIAL TEST REPORT**

No. Certificado/ Certificate No.	113593 - 21428238
Fecha / Date	09/03/2018

EXCELENCIA EN CALIDAD

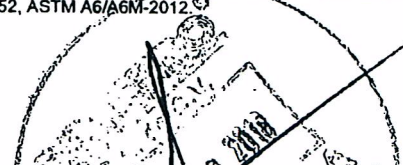
Hecho en México / Made in Mexico

DATOS DEL CLIENTE / SOLD TO		CLIENTE / CONSIGNADO / SHIP TO	DATOS DEL EMBARQUE / SHIPPING INFORMATION
Cliente / Customer: FERRE BARNIEDO SA DE CV		Cliente / Customer: ECATEPEC (MEXICO)	Núm. Viaje / Travel No: 113593
Dirección / Address: AVE. REVOLUCION 81 SAÑ CRISTOBAL		Dirección / Address: AV. REVOLUCION # 81 SAN CRISTOBAL	Núm. Factura / Invoice No: FQ63627
Ciudad / City: ECATEPEC	Estado / State: EDO. DE MEXICO	Ciudad / City: ECATEPEC	Estado / State: EDO. DE MEXICO
Teléfono / Phone: 555-836-1028 y		País / Country: MEXICO C.P./ZIP 55024	
Correo Electrónico / eMail: compras@ferrebarniedo.com.mx		Núm. Plan / Shipping Plan: 121648	
		Fecha Embarque / Date: 09/03/2018	
		Orden de Compra / Purchase Order: 528	

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	% Nb	% N	CE
				AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG
28374	35711	10498	CANAL 10" x 15.3 A36/A572-50 12.20m 4.0T	0.21	0.90	0.19	0.009	0.003	0.16	0.096	0.076	0.018	0.008	0.008	0.012	0.008	0.009	0.378
28377	35707	10498	CANAL 10" x 15.3 A36/A572-50 12.20m 4.0T	0.20	0.91	0.18	0.008	0.007	0.15	0.064	0.069	0.016	0.007	0.009	0.013	0.010	0.010	0.370
28380	35704	10498	CANAL 10" x 15.3 A36/A572-50 12.20m 4.0T	0.21	0.91	0.21	0.008	0.004	0.16	0.081	0.077	0.016	0.008	0.009	0.013	0.010	0.009	0.385
28381	35703	10498	CANAL 10" x 15.3 A36/A572-50 12.20m 4.0T	0.21	0.92	0.22	0.007	0.008	0.17	0.106	0.080	0.018	0.008	0.011	0.014	0.010	0.010	0.387
27917	35674	10502	CANAL 10" x 25 A36/A572-50 12.20m 4.0T	0.20	0.95	0.20	0.008	0.004	0.11	0.058	0.059	0.015	0.007	0.010	0.012	0.015	0.007	0.368
27920	35673	10502	CANAL 10" x 25 A36/A572-50 12.20m 4.0T	0.07	1.01	0.20	0.008	0.004	0.12	0.037	0.062	0.012	0.010	0.010	0.006	0.032	0.007	0.254

PROPIEDADES MECÁNICAS / MECHANICAL PROPERTIES											
Colada / Heat	Secuencia / Sequence	Clave / Code	Producto / Description of Goods	Calibre / Diameter	Cantidad / Bundle	RT kg/mm²	TS PSI	% Elong / Elong	LF kg/mm²	YS PSI	P. Doble / Bend Test
						AVG	AVG	AVG	AVG	AVG	
28374	35711	10498	CANAL 10" x 15.3 A36/A572-50 12.20m 4.0T	10" x 15.3	2	53.63	76315.49	26.59	41.37	58869.51	Cumple / Successfully
28377	35707	10498	CANAL 10" x 15.3 A36/A572-50 12.20m 4.0T	10" x 15.3	1	51.20	72857.60	30.57	36.25	51583.75	Cumple / Successfully
28380	35704	10498	CANAL 10" x 15.3 A36/A572-50 12.20m 4.0T	10" x 15.3	2	52.81	75148.63	30.57	38.30	54500.90	Cumple / Successfully
28381	35703	10498	CANAL 10" x 15.3 A36/A572-50 12.20m 4.0T	10" x 15.3	2	52.64	74906.72	30.57	41.43	58954.89	Cumple / Successfully
27917	35674	10502	CANAL 10" x 25 A36/A572-50 12.20m 4.0T	10" x 25	2	54.48	77525.04	24.72	39.54	56265.42	Cumple / Successfully
27920	35673	10502	CANAL 10" x 25 A36/A572-50 12.20m 4.0T	10" x 25	5	52.91	75290.93	24.72	39.61	56365.03	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.



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