



CERTIFICADO DE CALIDAD / MILL TEST

CC

TERNIUM MEXICO, S.A. DE C.V.

R.F.C. TME-840710-TR4

Av. Universidad No. 992, Colonia Cuauhtémoc, San Nicolás de los Garza, N.L.,

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www.ternium.com

Fecha de Emisión/ Date of issue (DMA) 12/10/2008

No./ Document number 525587



525587

Código cliente/ Customer ID

501269

Pedido No./ Sales order

100876

Orden de compra/ Purchase order

5128

Cliente/ Customer

PLESA CIA  
AV. VALLE DE LAS ALAMEDAS # 66-OCOL. SAN FRANCISCO CHILPAN  
TULTITLAN,MX,MEX 54940

Remisión/ Delivery

525587

Medio de Transporte/ Means of transportation

Gondola Cerrada

Descripción de mercaderías/ Goods description

ROLLO FRIO RECOCIDO

Datos Generales / General Data

No. Rollo/Coil id.		1225444AI	1225445AI	1225445AJ	1225563AH	
Colada/Heat		843122	813131	813131	823127	
Recubrimiento/Coating		N/A	N/A	N/A	N/A	
Peso/Weight kg		8835	9575	8705	9485	
Peso/Weight lb		19503.31	21136.87	19216.34	20938.19	
Espesor/Thickness mm / in		0.024	0.0245	0.0245	0.0236	
Ancho Width	in	LI/LL	47.68	47.68	47.68	
		LS/UL	48.78	48.78	48.78	
		Real/Actual	48.23	48.19	48.15	48.19
	mm	LI/LL	1211	1211	1211	1211
		LS/UL	1239	1239	1239	1239
		Real/Actual	1225	1224	1223	1224
Largo Length	m	LI/LL	N/A	N/A	N/A	
		LS/UL	N/A	N/A	N/A	N/A
		Real/Actual	0	0	0	0
	ft	LI/LL	N/A	N/A	N/A	N/A
		LS/UL	N/A	N/A	N/A	N/A
		Real/Actual	0	0	0	0
Capa Thickness		oz/ft2	N/A	N/A	N/A	
		g/m2	N/A	N/A	N/A	
TS/ST (1)		N/A	N/A	N/A	N/A	
No. Parte/Part		N/A	N/A	N/A	N/A	
Descripción/Description		N/A	N/A	N/A	N/A	
Norma de Calidad/Quality Norm		SAE J403	SAE J403	SAE J403	SAE J403	
Grado/Grade		1008	1008	1008	1008	

Calidad del Acero / Steel Quality

No. Rollo/Coil id.		1225444AI	1225445AI	1225445AJ	1225563AH
Colada/Heat		843122	813131	813131	823127
Dureza RB RB Hardness (4)	LI/LL	0.00	0.00	0.00	0.00
	LS/UL	70.00	70.00	70.00	70.00
	Real/Actual	47.00	37.00	40.00	45.00

1. TS: Tratamiento superficial, Aceitado, Sellado / ST: Superficial treatment, Oiled, Stenciled, etc  
4. RB: Rockwell B

2. LE: Limite elástico / Y.P.: Yield Point  
5. LI/LL Limite Inferior / Lower Limit

3. RT: Resistencia a la tensión / TS: Tensile Strength  
6. LS/UL Limite Superior / Upper Limit

Observaciones / Comments

C.I. / ID #

Firma / Signature

Ing. Antonio Mani  
Ternium Labs



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**CERTIFICADO DE CALIDAD /**  
**MILL TEST**

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		Calidad del Acero / Steel Quality			
No. Rollo/Coil id.		1225444AI	1225445AI	1225445AJ	1225563AH
Colada/Heat		843122	813131	813131	823127
Análisis Químico Chemical Analysis (L/LL - Real - LS/UL) %	C	0.0590	0.0560	0.0560	0.0560
	Mn	0.1607	0.1701	0.1701	0.1699
	S	0.0037	0.0023	0.0023	0.0040
	P	0.0052	0.0060	0.0060	0.0067
	Si	0.0186	0.0136	0.0136	0.0155
	Al	0.0305	0.0357	0.0357	0.0633
	Cr	0.0126	0.0118	0.0118	0.0099
	Cu	0.0051	0.0047	0.0047	0.0055
	Ni	0.0028	0.0046	0.0046	0.0034
	Sb	0.0005	0.0005	0.0005	0.0005
	Mo	0.0002	0.0011	0.0011	0.0003
	Sn	0.0003	0.0003	0.0003	0.0003
	N	0.0046	0.0036	0.0036	0.0037
	Cb	0.0003	0.0003	0.0003	0.0003
	V	0.0008	0.0010	0.0010	0.0010
	Ca	0.0035	0.0024	0.0024	0.0032
	Ti	0.0001	0.0004	0.0004	0.0001

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Observaciones / Comments

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Certificamos que el material aquí descrito ha sido inspeccionado y ensayado por personal autorizado independiente del área de manufactura con resultados satisfactorios en concordancia con la norma arriba descrita.  
 We here certify that the material described in here has been tested and inspected by authorized personal independent from the manufacturing department with satisfactory results in accordance with requirements of the above specification

Firma / Signature

*Antonio Maní*

Ing. Antonio Maní  
 Ternium Labs