



**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.,  
 Código Postal 66450  
 Teléfonos: +52(81)8329-8500  
 www.ternium.com

**Fecha de Emisión/ Date of issue** No./ Document number  
 (DMA) 25/08/2008 509207



**Código cliente/ Customer ID**  
501269

**Pedido No./ Sales order**  
99918

**Orden de compra/ Purchase order**  
4931

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

**Remisión/ Delivery**  
509207

**Medio de Transporte/ Means of transportation**  
Triple eje con susp.

**Descripción de mercaderías/ Goods description**  
ROLLO FRIO RECOCIDO

Datos Generales / General Data						
No. Rollo/Coil id.		1213208AI	1213209AI	1213211AH	HA12530AH	
Colada/Heat		LA817674	LA817670	LA817670	26994	
Recubrimiento/Coating		N/A	N/A	N/A	N/A	
Peso/Weight kg		9546	9550	9702	6128	
Peso/Weight lb		21072.85	21081.68	21417.22	13527.59	
Espesor/Thickness mm / in		0.0244	0.0244	0.0244	0.0244	
Ancho Width	in	LI/LL	47.68	47.68	47.68	
		LS/UL	48.78	48.78	48.78	
		Real/Actual	48.11	48.15	48.07	48.07
	mm	LI/LL	1211	1211	1211	1211
		LS/UL	1239	1239	1239	1239
		Real/Actual	1222	1223	1221	1221
Largo Length	m	LI/LL	N/A	N/A	N/A	
		LS/UL	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.		1213208AI	1213209AI	1213211AH	HA12530AH
Colada/Heat		LA817674	LA817670	LA817670	26994
Dureza RB RB Hardness (4)	LI/LL	30.00	30.00	30.00	30.00
	LS/UL	60.00	60.00	60.00	60.00
	Real/Actual	45.00	52.00	54.00	34.00

1. TS: Tratamiento superficial, Aceitado, Sellado / ST: Superficial treatment, Oiled, Stenciled, etc  
 2. LE: Limite elastico / YP: Yield Point  
 3. RT: Resistencia a la tensión / TS: Tensile Streight  
 4. RB: Rockwell B  
 5. LI/LL Limite Inferior / Lower Limit  
 6. LS/UL Limite Superior / Upper Limit

Observaciones / Comments

C.I. / ID #

Firma / Signature

*Antonio Mani*  
 Ing. Antonio Mani  
 Ternium Labs

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



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**CERTIFICADO DE CALIDAD /  
MILL TEST**

CC

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Calidad del Acero / Steel Quality						
No. Rollo/Coil id.	1213208AI	1213209AI	1213211AH	HA12530AH		
Colada/Heat	LA817674	LA817670	LA817670	26994		
Análisis Químico Chemical Analysis (LI/LL – Real – LS/UL) %	C	0.0550	0.0500	0.0500	0.0400	
	Mn	0.2100	0.1950	0.1950	0.1800	
	S	0.0100	0.0040	0.0040	0.0070	
	P	0.0110	0.0100	0.0100	0.0070	
	Si	0.0140	0.0220	0.0220	0.0200	
	Al	0.0370	0.0330	0.0330	0.0390	
	Cr	0.0350	0.0290	0.0290	0.0100	
	Cu	0.0310	0.0380	0.0380	0.0200	
	Ni	0.0230	0.0160	0.0160	0.0100	
	As	0.0020	0.0020	0.0020		
	Mo	0.0070	0.0030	0.0030		
	Sn	0.0020	0.0020	0.0020		
	N	0.0065	0.0053	0.0053		
	Cb	0.0038	0.0013	0.0013		
	V	0.0020	0.0010	0.0010		
	Ca	0.0024	0.0012	0.0012		
	B	0.0002	0.0001	0.0001		
	Ti	0.0014	0.0013	0.0013	0.0010	

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4. RB: Rockwell B

2. LE: Límite elástico / YP: 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 #

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Ing. Antonio Maní  
Ternium Labs