



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

CERTIFICADO DE CALIDAD /
MILL TEST CERTIFICATE

Fecha de Emisión / Date of Issue
 (DMA) 05/10/2010

No./ Document number
 769691



769691

Código cliente/ Customer ID
 1269

Pedido No./ Sales order
 138828

Orden de compra/ Purchase order
 8732

Cliente/ Customer
 PLESA CIA
 AV. VALLE DE LAS ALAMEDAS # 66-O COL. SAN FRANCISCO CHILPAN
 TULTITLAN
 MX
 54940

Remisión/ Delivery
 769691

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

Descripción de mercaderías/ Goods description
 ROLLO FRIO RECOCIDO

| Datos Generales / General Data | | | | | | | | | | | |
|--------------------------------|-------------|-----------------------|-------------|-------|---------------------------|-------------|-----|--------------|-----|----------------|------|
| No. Rollo/Coil id. | Colada/Heat | Recubrimiento/Coating | Peso/Weight | | Espesor/Thickness mm / in | Ancho/Width | | Largo/Length | | Capa/Thickness | |
| | | | kg | lb | | in | mm | m | ft | oz/ft2 | g/m2 |
| 1445127AE | NA58035 | N/A | 7810 | 17241 | 2.67 / 0.1051 | 36.14 | 918 | N/A | N/A | N/A | N/A |
| 1445128AE | NA58045 | N/A | 8260 | 18234 | 2.68 / 0.1055 | 36.22 | 920 | N/A | N/A | N/A | N/A |

| Datos Generales / General Data | | | | | | |
|--------------------------------|-------------|-----------|----------------|-------------------------|-------------------------------|-------------|
| No. Rollo/Coil id. | Colada/Heat | TS/ST (1) | No. Parte/Part | Descripción/Description | Norma de Calidad/Quality Norm | Grado/Grade |
| 1445127AE | NA58035 | N/A | | ROLLO FRIO RECOCIDO | SAE J403 | 1008 |
| 1445128AE | NA58045 | N/A | | ROLLO FRIO RECOCIDO | SAE J403 | 1008 |

1. TS: Tratamiento superficial, Aceitado, Sellado / ST: Superficial treatment, Oiled, Stenciled, etc
 4. HRBW: Rockwell B Indentador de WC

2. LE: Límite elástico / YP: Yield Point
 5. L/LL Limite Inferior / Lower Limit

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

Observaciones / Comments
 N/A

C.I. / ID #

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.
 Propiedades Mecánicas bajo las normas ASTM E8, E18, E517, E646, EN-10002, según requerimiento y peso de capa bajo ASTM A90
 Análisis Químico bajo la norma ASTM E 415 / 1019
 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
 Mechanical Properties as ASTM E8, E18, E517, E646, EN-10002, as required and coating weight with ASTM A90
 Chemical Analysis as ASTM E 415 / 1019

Firma / Signature

Ing. Antonio Mani
 Ternium Labs



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| Calidad del Acero / Steel Quality (Análisis Químico/Chemical Analysis) | | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| No. Rollo/Coil id. | Colada/Heat | C | Mn | Si | P | S | Al | Cu | Cr | Ni | Mo | Sn | N | Cb | V |
| 1445127AE | NA58035 | 0.060 | 0.200 | 0.010 | 0.009 | 0.017 | 0.040 | 0.050 | 0.030 | 0.020 | 0.002 | 0.001 | 0.003 | 0.002 | 0.001 |

| Calidad del Acero / Steel Quality (Análisis Químico/Chemical Analysis) | | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| No. Rollo/Coil id. | Colada/Heat | C | Mn | Si | P | S | Al | Cu | Cr | Ni | Mo | Sn | N | Cb | V |
| 1445128AE | NA58045 | 0.050 | 0.190 | 0.010 | 0.006 | 0.012 | 0.051 | 0.030 | 0.020 | 0.020 | 0.002 | 0.001 | 0.004 | 0.002 | 0.001 |

| Notas / Notes: |
|----------------|
| |

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- 6. LS/UL Límite Superior / Upper Limit

| | |
|--|--|
| Observaciones / Comments N/A | C.I. / ID # Firma / Signature  Ing. Antonio Maní Ternium Labs |
|--|--|

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