



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

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www.ternium.com

CERTIFICADO DE CALIDAD /
MILL TEST CERTIFICATE
(EN10204 3.1 – ISO 10474 3.1B)
Fecha de Emisión /Date of Issue
(DMA) 14/12/2011



0627453085

No./ Document number
0627453085

Código cliente/ Customer ID

232500

Pedido No./ Sales order

0603419027

Orden de compra/ Purchase order

11108

Cliente/ Customer

PLASA ANAHUAC Y CIAS. S.A. DE C.V.
AV. VALLE DE LAS ALAMEDAS 66 SN. FCO.
TULTITLAN, EDO. DE MEXICO
99999

Remisión/ Delivery

0627453085

Medio de Transporte/ Means of transportation

Camión

Descripción de mercaderías/ Goods description

RFR, RFR, RFR

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 |
| 519815-000 | 90794 | N/A | 11575 | 25518 | 1.50 / 0.0591 | 36.06 | 916.00 | 0 | N/A | N/A | N/A |
| 520543-000 | 90931 | N/A | 7615 | 16788 | 1.48 / 0.0581 | 36.14 | 918.01 | 0 | N/A | N/A | N/A |
| 520543-010 | 90931 | N/A | 7415 | 16347 | 1.48 / 0.0581 | 36.14 | 918.01 | 0 | 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 |
|--------------------|-------------|-----------|----------------|-------------------------|-------------------------------|-------------|
| 519815-000 | 90794 | N/A | N/A | ROLLO FRIO RECOCIDO | SAE1008 | N/A |
| 520543-000 | 90931 | N/A | N/A | ROLLO FRIO RECOCIDO | SAE1008 | N/A |
| 520543-010 | 90931 | N/A | N/A | ROLLO FRIO RECOCIDO | SAE1008 | N/A |

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 - 0.2% offset productos recubiertos (coating products)
5. LI/LL Límite Inferior / Lower Limit 6. LS/UL Límite Superior / Upper Limit

3. RT: Resistencia a la tensión / TS: Tensile Strengh

Observaciones / Comments

N/A

C.I. / ID #

Firma / Signature

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. 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 certify that the material described 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



| Calidad del Acero / Steel Quality (Análisis Químico/Chemical Analysis) | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| No. Rollo/Coil id. | Colada/Heat | Al | C | Cb | Cr | Cu | Mn | Mo | Ni | P | S | Si | Ti | V |
| 519815-000 | 90794 | 0.048 | 0.040 | 0.001 | 0.010 | 0.000 | 0.210 | 0.000 | 0.010 | 0.018 | 0.008 | 0.010 | 0.001 | 0.001 |

| Calidad del Acero / Steel Quality (Análisis Químico/Chemical Analysis) | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| No. Rollo/Coil id. | Colada/Heat | Al | C | Cb | Cr | Cu | Mn | Mo | Ni | P | S | Si | Ti | V |
| 520543-000 | 90931 | 0.036 | 0.090 | 0.000 | 0.010 | 0.010 | 0.320 | 0.000 | 0.020 | 0.008 | 0.001 | 0.020 | 0.000 | 0.000 |

| Calidad del Acero / Steel Quality (Análisis Químico/Chemical Analysis) | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| No. Rollo/Coil id. | Colada/Heat | Al | C | Cb | Cr | Cu | Mn | Mo | Ni | P | S | Si | Ti | V |
| 520543-010 | 90931 | 0.036 | 0.090 | 0.000 | 0.010 | 0.010 | 0.320 | 0.000 | 0.020 | 0.008 | 0.001 | 0.020 | 0.000 | 0.000 |

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