



TERNIUM MEXICO, S.A. DE C.V.
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CERTIFICADO DE CALIDAD /
MILL TEST CERTIFICATE

Fecha de Emisión /Date of Issue
 (DMA) 08/09/2011

No./ Document number
 900832



Código cliente/ Customer ID
 1269

Pedido No./ Sales order
 161375

Orden de compra/ Purchase order
 10824

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

Remisión/ Delivery
 900832

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 |
| HA44808AF | 22490 | N/A | 9220 | 20353 | 0.77 / 0.0303 | 48.23 | 1225 | N/A | N/A | N/A | N/A |
| HA44809AF | 22491 | N/A | 7965 | 17583 | 0.78 / 0.0306 | 48.19 | 1224 | N/A | N/A | N/A | N/A |
| HA44949AE | 22491 | N/A | 8360 | 18455 | 0.76 / 0.0299 | 48.23 | 1225 | N/A | N/A | N/A | N/A |
| HA44949AF | 22491 | N/A | 8380 | 18499 | 0.76 / 0.0299 | 48.23 | 1225 | N/A | N/A | N/A | N/A |

1. TS: Tratamiento superficial, Aceitado, Sellado / ST: Superficial treatment, Oiled, Stenciled,etc
 2. LE: Límite elástico / YP: Yield Point - 0.2% offset productos recubiertos (coating products)
 3. RT: Resistencia a la tensión / TS: Tensile Strenght
 4. HRBW: Rockwell B Indentador de WC
 5. LI/LL Límite Inferior / Lower Limit
 6. LS/UL Límite Superior / Upper Limit

Observaciones / Comments

N/A

C.I. / ID #

Firma / Signature

Ing. Antonio Mani
 Ternium Labs



900832

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 |
|--------------------|-------------|-----------|----------------|-------------------------|-------------------------------|-------------|
| HA44808AF | 22490 | N/A | | ROLLO FRIO RECOCIDO | SAE J403 | 1008 |
| HA44809AF | 22491 | N/A | | ROLLO FRIO RECOCIDO | SAE J403 | 1008 |
| HA44949AE | 22491 | N/A | | ROLLO FRIO RECOCIDO | SAE J403 | 1008 |
| HA44949AF | 22491 | N/A | | ROLLO FRIO RECOCIDO | SAE J403 | 1008 |

Calidad del Acero / Steel Quality (Análisis Químico/Chemical Analysis)

| No. Rollo/Coil id. | Colada/Heat | C | Mn | P | S | Al | Si | Ti | Cr | Cu | Ni |
|--------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HA44808AF | 22490 | 0.060 | 0.330 | 0.008 | 0.004 | 0.034 | 0.030 | 0.001 | 0.010 | 0.020 | 0.010 |

Calidad del Acero / Steel Quality (Análisis Químico/Chemical Analysis)

| No. Rollo/Coil id. | Colada/Heat | C | Mn | P | S | Al | Si | Ti | Cu | Ni | V | Ca |
|--------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HA44809AF | 22491 | 0.060 | 0.340 | 0.007 | 0.009 | 0.027 | 0.020 | 0.001 | 0.020 | 0.010 | 0.001 | 0.001 |

Calidad del Acero / Steel Quality (Análisis Químico/Chemical Analysis)

| No. Rollo/Coil id. | Colada/Heat | C | Mn | P | S | Al | Si | Ti | Cu | Ni | V | Ca |
|--------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HA44949AE | 22491 | 0.060 | 0.340 | 0.007 | 0.009 | 0.027 | 0.020 | 0.001 | 0.020 | 0.010 | 0.001 | 0.001 |

Calidad del Acero / Steel Quality (Análisis Químico/Chemical Analysis)

| No. Rollo/Coil id. | Colada/Heat | C | Mn | P | S | Al | Si | Ti | Cu | Ni | V | Ca |
|--------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HA44949AF | 22491 | 0.060 | 0.340 | 0.007 | 0.009 | 0.027 | 0.020 | 0.001 | 0.020 | 0.010 | 0.001 | 0.001 |

Notas / Notes:

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| |
| |

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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 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