



Bld. Milenium 5104, Parque Industrial Milenium, 66600 Cd Apodaca, N.L.

**CERTIFICADO DE CALIDAD
QUALITY CERTIFICATE**

Cliente / Customer
Dirección / Address

**RICSSA REPRESENTACION INGENIERIA CONSULTORIA
CONSTRUCCION Y SERVICIOS S.A. DE C.V.
CONQUISTADORES 222 VIRGINIA 94294 BOCA DEL RIO VERACRUZ**

No. Certificado
260623-001
Document Number

**HECHO EN MÉXICO
MADE IN MÉXICO**
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| Código de Producto / Product Code | | Fecha / Date | | Número de Parte / Part Number |
|-----------------------------------|--|------------------------------|-----------------------------------|-------------------------------|
| | | Emisión / Issued 15-10-19 | Reimpresión / Reprint 15-10-19 | |

DATOS GENERALES / GENERAL DATA

| Partida / Item | No. Rollo o Lote / Master Coil | Colada / Heat | Espesor / Thickness (mm / in) | | Ancho / Width (mm / in) | | Largo / Length (mm / in) | | Producto / Product |
|----------------|--------------------------------|---------------|-------------------------------|--------|-------------------------|----|--------------------------|-----|--------------------|
| 1 | 4A241316PM400 | A057991C39 | 6.35 | 0.2500 | 1828 | 72 | 6096 | 240 | |
| 2 | 239K031 | 2241318 | 9.53 | 0.3750 | 1828 | 72 | 6096 | 240 | |
| 3 | 239K032 | 2241318 | 9.53 | 0.3750 | 1828 | 72 | 6096 | 240 | |

| Partida / Item | No. Rollo o Lote / Master Coil | Norma de Calidad / Quality Standard | Grado / Grade | Recubrimiento / Coating | Capa / Coating (oz/ft ² / g/m ²) | |
|----------------|--------------------------------|-------------------------------------|---------------|-------------------------|---|--|
| 1 | 4A241316PM400 | ASTM A283 | Tipo C | | | |
| 2 | 239K031 | ASTM A283 | Tipo C | | | |
| 3 | 239K032 | ASTM A283 | Tipo C | | | |

CALIDAD DEL ACERO / STEEL QUALITY

PROPIEDADES MECÁNICAS LONGITUDINALES / LONGITUDINAL MECHANICAL PROPERTIES

| No. Rollo o Lote / Master Coil | | 4A241316PM400 | 239K031 | 239K032 |
|-------------------------------------|--------------------------|---------------|---------|---------|
| Colada / Heat | | A057991C39 | 2241318 | 2241318 |
| Partida / Item | | 1 | 2 | 3 |
| R. Cedencia / Yield Strenght (KSI) | LI / LL Real / Actual | 46.1 | 55 | 55 |
| R. Tensión / Tensile Strenght (KSI) | LI / LL Real / Actual | 66.6 | 74 | 74 |
| % Elongación / Elongation % | LI / LL Real / Actual | 38 | 23 | 23 |

| Composición Química (%) Limite Inferior - Limite Superior | C | 0.020 | 0.210 | 0.210 |
|---|----|-------|-------|-------|
| | Mn | 0.630 | 0.850 | 0.850 |
| | P | 0.016 | 0.008 | 0.008 |
| | S | 0.004 | 0.004 | 0.004 |
| | Si | 0.100 | 0.013 | 0.013 |

LI - LS: Limite Inferior - Limite Superior / LL - UL: Lower Limit - Upper Limit

Angel Izaguirre Zuñiga
Calidad