

**CERTIFICADO DE CALIDAD**

 GERDAU CORSA SAPI DE CV  
 KM. 3 CARRETERA MÉXICO - SAHAG  
 GERDAU CORSA SAPI DE CV, MEXICO  
 43990  
 SAHAGÚN

|   |  |                             |  |                              |
|---|--|-----------------------------|--|------------------------------|
| CLIENTE A ENVIAR<br>PLESA ANAHUAC Y CIAS SA DE CV<br>AVENIDA VALLE DE LAS<br>ALAMEDAS<br>TULTITLAN DE MARIANO ESCO.MEX<br>54940 | CLIENTE A FACTURAR<br>PLESA ANAHUAC Y CIAS SA DE CV<br>AVENIDA VALLE DE LAS ALAMEDAS<br>TULTITLAN DE MARIANO ESCO.MEX<br>54940<br>México | GRADO<br>ASTM A992/A572 G50 | PRODUCTO / MEDIDA<br>Wide Flange Beam / 12 x 53# / 310 x 78.9  | CERTIFICATE ID<br>0000079901 |
| PEDIDO DE VENTA<br>7934918/000010   |  | LONGITUD<br>12.20 M         | PESO<br>11.550 KG  | COLADA / LOTE<br>11017428/06 |
| ORDEN DE COMPRA DEL CLIENTE<br>28583  |  | CARTA DE EMBARQUE           | ESPECIFICACIÓN TÉCNICA<br>ASTM A572-13 G50<br>ASTM A6-14<br>ASTM A992-11 (2015)<br>CSA G40.21-13 345WM |                              |
| FECHA<br>01.07.2019   |  | CUSTOMER MATERIAL N°        |  |                              |

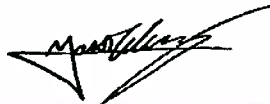
|                     |         |        |        |         |         |         |         |         |         |        |       |         |
|---------------------|---------|--------|--------|---------|---------|---------|---------|---------|---------|--------|-------|---------|
| COMPOSICIÓN QUÍMICA |         |        |        |         |         |         |         |         |         |        |       |         |
| C<br>%              | Mn<br>% | S<br>% | P<br>% | Cr<br>% | Cu<br>% | Mo<br>% | Nb<br>% | Ni<br>% | Si<br>% | V<br>% | C.E.  | Pb<br>% |
| 0.087               | 1.056   | 0.037  | 0.008  | 0.109   | 0.333   | 0.016   | 0.018   | 0.090   | 0.190   | 0.002  | 0.317 | 0.000   |

|                     |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| COMPOSICIÓN QUÍMICA |  |  |  |  |  |  |  |  |  |  |  |  |
| Sn<br>%             |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.022               |  |  |  |  |  |  |  |  |  |  |  |  |

|                       |               |             |               |              |           |  |
|-----------------------|---------------|-------------|---------------|--------------|-----------|--|
| PROPIEDADES MECÁNICAS |               |             |               |              |           |  |
| YS/FY<br>KSI          | UTS/FU<br>KSI | Elong.<br>% | UTS/FU<br>MPa | YS/FY<br>MPa | G/L<br>mm |  |
| 53.9                  | 69.1          | 34.4        | 476.2         | 371.7        | 200       |  |
| 51.7                  | 66.2          | 34.4        | 456.5         | 356.3        | 200       |  |

|                       |  |
|-----------------------|--|
| PROPIEDADES MECÁNICAS |  |
| YS/UTS                |  |
| 0.78                  |  |
| 0.78                  |  |

COMENTARIOS / NOTAS



CARLOS MOSS VELEZ