



Steel Dynamics Southwest, LLC  
8534 Hwy 89  
Sinton, TX 78387 United States  
Telephone (361) 424-6200

# Metallurgical Certification



Cert # 102800 - Cert/Ship Date : 20/20/2023 03:20

|                   |  |              |                 |                      |
|-------------------|--|--------------|-----------------|----------------------|
| <b>Contact</b>    |  |              |                 |                      |
| Ship To           | P.O. # SSW-137271<br>12GA X 72 X 240 HR SHEET<br>HEAT # B2309260 |              |                 |                      |
| <b>Contact</b>    |  |              |                 |                      |
| Sold To           |  |              |                 |                      |
| <b>Length</b>     | 1,850 ft   | <b>Width</b> | 72.0000 in      | <b>Chem Treat</b> No |
| <b>Weight (A)</b> | 46,800 lb  | <b>Gauge</b> | 0.0970 in   Min | <b>Oiled</b> No      |

|                          |                           |                   |            |
|--------------------------|---------------------------|-------------------|------------|
| <b>Coil #</b>            | 238162590                 | <b>Coil Alias</b> |            |
| <b>Order #</b>           | 105904                    | <b>Heat #</b>     | B2309260   |
| <b>Line Item #</b>       | 4                         | <b>PO #</b>       | 25.775 - 4 |
| <b>Part #</b>            |                           |                   |            |
| <b>Alt Part #</b>        |                           |                   |            |
| <b>Material Spec.</b>    | ASTM A1011 SS GR 33 - 18a |                   |            |
| <b>Product Desc.</b>     | Prime Hot Rolled Band     |                   |            |
| <b>Cert Comment</b>      |                           |                   |            |
| <b>Surface Treatment</b> |                           |                   |            |

**Ladle Chemical Analysis (%)**

| C    | Mn   | P     | S     | Si   | Al    | Cu   | Ni   | Cr   | Mo   | Sn    | N     | V     | Nb    | Ti    | B      | Ca    | Pb    | Zr |
|------|------|-------|-------|------|-------|------|------|------|------|-------|-------|-------|-------|-------|--------|-------|-------|----|
| 0.05 | 0.31 | 0.003 | 0.004 | 0.02 | 0.036 | 0.08 | 0.03 | 0.02 | 0.01 | 0.004 | 0.009 | 0.004 | 0.002 | 0.001 | 0.0000 | 0.004 | 0.000 |    |

**Mechanical Properties (if applicable)**

| Sample 1                 | English      | Metric    |
|--------------------------|--------------|-----------|
| <b>Sample Location</b>   | Tail         |           |
| <b>Tensile Direction</b> | Longitudinal |           |
| <b>Testing Standard</b>  | ASTME        |           |
| <b>Cert Mode</b>         | Heat         |           |
| <b>YieldStrength</b>     | 46.8 KSI     | 322.7 MPa |
| <b>TensileStrength</b>   | 60.7 KSI     | 418.5 MPa |
| <b>TotalElongation</b>   | 31 %         |           |



Shipped from Sinton, TX, USA

Melted, thin slab cast and rolled by proud Americans in Sinton, TX, USA.

SDI does not weld or repair Prime Hot Rolled Band products.

All tests were performed according to applicable standards and are correct as contained in the records of the company.