General Product Description

ASTM A656 Grade 100 steel plate is a low-carbon, thermo-mechanical controlled-rolled material that has been developed for applications where increased strength-to-weight ratios are required. ASTM A656 Grade 100 is available as temper-leveled, cut-to-length plate meeting or exceeding the requirements of ASTM A656 Grade 100. Coil for Conversion To is also available with additional processing requirements.

Applications

ASTM A656 Grade 100 plate is designed to be used for transport trailers, construction equipment, crane booms, mobile manlifts, agriculture equipment, rail cars, heavy vehicle frames and cabs.

Dimensions

<table>
<thead>
<tr>
<th>Grade</th>
<th>Product Type</th>
<th>Thickness (Inches)</th>
<th>Width (Inches)</th>
<th>Length (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>Temper Leveled Plate 1) 2)</td>
<td>0.188 - 0.500 3)</td>
<td>48 - 96</td>
<td>72 - 720</td>
</tr>
</tbody>
</table>

1) SSAB’s Cut-To-Length facilities use the temper leveled coil (TLC) process to produce temper leveled plate products. For additional information concerning our temper leveling process, please refer to our SSAB Americas: North American Cut-to-Length Operations brochure located under the Downloads section of our Commercial Steels Overview page.
2) Inquire for Coils for Conversion To.
3) Temper Leveled Plate thicknesses greater than 0.375 inches have a maximum width of 72 inches.

Mechanical Properties

Tension testing is performed in the transverse direction according to ASTM A6 requirements. The required mechanical properties are tabulated below:

<table>
<thead>
<tr>
<th>Grade</th>
<th>0.2% YS (ksi)</th>
<th>UTS (ksi)</th>
<th>Elongation in 2&quot; (min %)</th>
<th>Elongation in 8&quot; (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>110</td>
<td>110</td>
<td>15</td>
<td>12</td>
</tr>
</tbody>
</table>

1) For plates wider than 24 inches, the elongation requirement is reduced by three percentage points. Additional elongation requirement adjustments are allowed per the Tension Test section of ASTM A6.

Tolerances

Tolerances for Temper Leveled Plate:

Thickness, width and length tolerances for A656, Grade 100 plates are in accordance with ASTM A6. ASTM A6 Half-Standard Flatness tolerances or better are available for temper leveled plates. Flatness capabilities are determined by the processing line and the minimum yield strength of the material.

Tolerances for Coils for Conversion To:

For minimum gauge orders, thickness and width tolerances are in accordance with the respective ASTM specifications of A668 for thicknesses of less than 0.230 inches (exclusive), and A635 for thicknesses of 0.230 inches to 1.00 inch, inclusive. Thickness tolerances are in accordance with Table S1.1 found in each of the ASTM specifications of A635 and A668, respective of thickness. Width tolerances are in accordance with Table 6 of ASTM A668 and Table 3 of ASTM A635. Thickness tolerances for nominal gauge orders must be inquired.

Contact Information

www.ssab.com/contact