LNT AlMg4.5Mn

CLASSIFICATION
AWS 5.10/5.10M - R5183
ISO 18273 - SA1 5183 (AlMg4.5Mn0.7(A))
EN 573.3 - EN AW-AlMg4.5Mn
AA - 5183
Werkstoff Nr. - 3.3548

GENERAL DESCRIPTION
Designed to meet the tensile strength requirements of magnesium alloys
For base materials 5083 and 5654

SHIELDING GASES (ACC. ISO 14175)
I1 : Inert gas Ar (100%)
I3 : Inert gas Ar+ 0.5-95% He
Flow Rate : 8 - 15 L/min

APPROVALS
DB +
TÜV +
CE +

CHEMICAL COMPOSITION (W%) TYPICAL WIRE
<table>
<thead>
<tr>
<th></th>
<th>Al</th>
<th>Si</th>
<th>Fe</th>
<th>Cu</th>
<th>Mn</th>
<th>Mg</th>
<th>Cr</th>
<th>Zn</th>
<th>Ti</th>
<th>Be</th>
</tr>
</thead>
<tbody>
<tr>
<td>bal.</td>
<td>max. 0.4</td>
<td>max. 0.4</td>
<td>max. 0.1</td>
<td>0.5-1.0</td>
<td>4.3-5.2</td>
<td>0.05-0.25</td>
<td>max. 0.25</td>
<td>max. 0.15</td>
<td>max. 0.0003</td>
<td></td>
</tr>
</tbody>
</table>

Notes : Unspecified elements should not exceed a total of 0.15%

MECHANICAL PROPERTIES. TYPICAL. ALL WELD METAL

<table>
<thead>
<tr>
<th>Shielding gas</th>
<th>Condition</th>
<th>Yield strength (N/mm²)</th>
<th>Tensile strength (N/mm²)</th>
<th>Elongation (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical values</td>
<td>I1 AW</td>
<td>125-165</td>
<td>270-290</td>
<td>16-25</td>
</tr>
</tbody>
</table>

PHYSICAL PROPERTIES
Melting range : 568 - 638°C
Density : approximately 2660 kg/m³

MATERIAL TO BE WELDED
Refer to “Filler Metal Guide for Aluminium”

APPLICATIONS
Marine fabrication and repair
Cryogenic tanks
Shipbuilding and other high strength structural aluminium applications
Military Industry
Railway & Automotive Industry
Trailer Industry and Offshore

PACKAGING AND AVAILABLE SIZES

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>1.6</th>
<th>2.0</th>
<th>2.4</th>
<th>3.2</th>
<th>4.0</th>
<th>4.8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit</td>
<td>5 kg cardboard box</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Other sizes and packaging on request</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note : Cut length = 1000 mm

All information in this data sheet is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.eu for any updated information.
Fumes: Material Safety Data Sheets (MSDS) are available on our website.