A36 steel plate, ASTM A36 steel plate, under ASTM standard, we can regard A36 steel plate as Carbon and low alloy steel.

A36 steel plate is one mainly of Carbon and low alloy steel, ASTM A36 steel is a widely accepted general purpose structural quality steel offering a constant 36 ksi min. yield point for all thicknesses of material. It is widely used in the construction of buildings, bridges and other structures by means of welding, bolting or riveting. This steel is useful because of its wide availability.

<table>
<thead>
<tr>
<th>Yield point, min. Ksi</th>
<th>up to &amp; incl. 8&quot; thick 36 over 8&quot; thick 32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength, Ksi</td>
<td>58-80</td>
</tr>
<tr>
<td>Elongation in 8 in., min., %</td>
<td>20</td>
</tr>
<tr>
<td>Elongation in 2 in., min., %</td>
<td>23</td>
</tr>
</tbody>
</table>

### CHEMICAL REQUIREMENTS

<table>
<thead>
<tr>
<th>Thickness, in</th>
<th>All</th>
<th>To 3/4</th>
<th>Over 3/4to3/2incl.</th>
<th>Over 3/2to5/2incl.</th>
<th>Over 5/2to4 incl.</th>
<th>Over 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon, max, %</td>
<td>0.26</td>
<td>0.25</td>
<td>0.25</td>
<td>0.26</td>
<td>0.27</td>
<td>0.29</td>
</tr>
<tr>
<td>Manganese, %</td>
<td>-</td>
<td>-</td>
<td>0.80-1.20</td>
<td>0.80-1.20</td>
<td>0.85-1.20</td>
<td>0.85-1.20</td>
</tr>
<tr>
<td>Phosphorus, max, %</td>
<td>0.04</td>
<td>0.04</td>
<td>0.04</td>
<td>0.04</td>
<td>0.04</td>
<td>0.04</td>
</tr>
<tr>
<td>Sulfur, max, %</td>
<td>0.05</td>
<td>0.05</td>
<td>0.05</td>
<td>0.05</td>
<td>0.05</td>
<td>0.05</td>
</tr>
<tr>
<td>Silicon, %</td>
<td>-</td>
<td>0.40</td>
<td>0.40</td>
<td>0.15-0.40</td>
<td>0.15-0.40</td>
<td>0.15-0.40</td>
</tr>
<tr>
<td>Copper, min, %</td>
<td>0.20</td>
<td>0.20</td>
<td>0.20</td>
<td>0.20</td>
<td>0.20</td>
<td>0.20</td>
</tr>
</tbody>
</table>

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