Clifton Tensalloy™ is the superior choice for consistent product performance. This special abrasion-resistant steel plate offers outstanding wear and impact-resistant properties.

**CUTTING**

All Clifton Tensalloy products can easily be cut to your specifications with plasma, oxy-Acetylene, laser, and water jet as well as with abrasive cut off saws. Ask your Clifton Steel Representative for a quote today.

**FORMING**

AR400 & AR450 are specially made for improved formability with low levels of carbon and sulphur for inclusion shape control. BLUE AR500 is not recommended for forming, given its high strength and hardness—however forming can be done. Contact a Clifton Steel Representative today for details.

**WELDING**

AR400 & AR450 have excellent weldability that customers rave about and can be welded with simple procedures and common consumables such as E7018 inclusion shape control.

BLUE AR500 requires using low-hydrogen-producing electrodes in welding. Where maximum strength of joining plates is not important, rod type AWS E7016, 15, or 18 should be used. If possible, 7018 and 8018 electrodes should be used with the 500 BHN steel. If the weld is to be subjected to wear, it may be capped with a hard facing electrode having a low hydrogen type coating. When higher weld strengths are required, electrodes of the AWS E90, E100 or E120 low hydrogen series should be used, depending on the strength levels required.

**MACHINING**

Drilling, countersinking, counterboring, tapping, milling, and general machining is performed using conventional equipment and carbide tools for our Tensalloy products.
### CLIFTON TENSALLOY™ AR400
- Long-lasting, outstanding wear plate

### CLIFTON TENSALLOY™ AR450
- For additional hardness and strength

### CLIFTON TENSALLOY™ BLUE AR500
- Premium wear and impact plate provides highest level of wear resistance

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<table>
<thead>
<tr>
<th>GENERAL DESCRIPTION</th>
<th>CLIFTON TENSALLOY™ AR400</th>
<th>CLIFTON TENSALLOY™ AR450</th>
<th>CLIFTON TENSALLOY™ BLUE AR500</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPICAL HARDNESS</td>
<td>360 – 440 BHN</td>
<td>429 – 490 BHN</td>
<td>460 – 550 BHN Minimum surface hardness of 477 BHN Core hardness 450 min BHN</td>
</tr>
<tr>
<td>THICKNESS</td>
<td>.125˝ THROUGH 8˝</td>
<td>.236˝ THROUGH 2.5˝</td>
<td>.236˝ THROUGH 2.5˝</td>
</tr>
<tr>
<td>WIDTH</td>
<td>48˝ TO 120˝</td>
<td>48˝ TO 120˝</td>
<td>48˝ TO 120˝</td>
</tr>
<tr>
<td>LENGTH</td>
<td>480˝</td>
<td>480˝</td>
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</tr>
</tbody>
</table>

**AVAILABLE UPON REQUEST:**

**CLIFTON AR250** - an everyday plate with some impact resistance at 200-280 BHN.

**CLIFTON TENSALLOY™ EXTRA** - (also referred to as HY 80 and HY 100) offers corrosion resistance and heat resistance.