1300, 1500 N/mm²-grade MS Steel for Bumpers

**Effect**

- Weight Reduction of Bumpers
- Improvement of Crash Worthiness

**Points**

**Delayed Fracture Property**

Cracks are confirmed by soaking in hydrochloric acid, using test piece (TP) with cutting edge.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Applied Stress (TS x 0.9)</th>
<th>○ : No crack / × : Cracked</th>
</tr>
</thead>
<tbody>
<tr>
<td>1300 N/mm²-grade</td>
<td>○ ○ ○</td>
<td></td>
</tr>
<tr>
<td>1500 N/mm²-grade</td>
<td>○ ○ ○</td>
<td></td>
</tr>
</tbody>
</table>

**Roll Form Formability**

It can be bend to 1.5 R
(1300 N/mm²-grade, 1500 N/mm²-grade, Thickness: 1.2 mm)