VAUTID 100T
Wear plate for highly wear resistant hardfacing even at elevated temperatures

Base materials
All weldable steels, mostly boiler plates

Material type
Alloy components
High-chromium/ high-carbon special-alloy on iron base with nickel and manganese additions
C – Cr – Ni – Fe

Recommended applications
At high abrasive wear and high temperatures up to 550°C on average corrosion- and impact stress

Weld deposit properties
Hardness (acc. DIN 32525-4): approx. 700 HV10, 60 HRC*

Main industries
Metallurgical plant, cement industry, chemical industry, petrochemical industry, etc.

Typical machine parts
Chutes, sieves, fans, fan housings, cyclones, transfer units, grids, etc.

Handling
- Conventional machining possible only by grinding
- Thermal cutting using laser, plasma or water jet cutting
- Cold working from diameter 300 mm possible with hard facing inside (1)
- Cold working from diameter 450 mm possible with hard facing outside (1)
- Fixing by welding or bolting on the base material
- Constructions comparable with conventional steel construction

(1) dependent on thickness of plates
* subject to common industrial fluctuations

Forms of delivery:

<table>
<thead>
<tr>
<th>Formats (mm)</th>
<th>Thickness of the plates Base material + Hardfacing (mm)</th>
<th>Material Layers</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard formats</td>
<td>5+3 [3], 6+4, 6+6, 8+5, 8+6, 8+8, 10+5, 10+10</td>
<td>≤ 6 mm: 1 Layer</td>
<td>Base material 5 mm: Hardfacing 3 mm</td>
</tr>
<tr>
<td>2.400 x 1.150 [2]</td>
<td>Futher combinations on demand</td>
<td>&gt; 6 mm: 2 - 4 Layers</td>
<td>Base material 6 mm: Hardfacing 3-6 mm</td>
</tr>
<tr>
<td>2.900 x 1.400 [2]</td>
<td></td>
<td></td>
<td>Base material ≥ 8 mm: Hardfacing 3-20 mm</td>
</tr>
<tr>
<td>Special body</td>
<td>On demand</td>
<td>≤ 6 mm: 1 Layer</td>
<td>Base material 6 mm: Hardfacing 4-6 mm</td>
</tr>
<tr>
<td>Up to 3.900 x 1.900</td>
<td></td>
<td>&gt; 6 mm: 2 - 4 Layers</td>
<td>Base material ≥ 8 mm: Hardfacing 4-20 mm</td>
</tr>
</tbody>
</table>

* subject to common industrial fluctuations

This data sheet corresponds to the present state of production (October 2016) and can be changed anytime.

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