### VAUTID 147
Wear plate for highly wear resistant hardfacing even at high temperatures

**VAUTID Material characteristics**

<table>
<thead>
<tr>
<th>Base materials</th>
<th>All weldable steels, mostly boiler plates, high-alloyed temperature resistant Cr-Ni-sheets and fine-grained steels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material type</td>
<td>High-chromium/ high-carbon alloy on iron base with embedded special carbides and boron additions C – Cr – B – Fe</td>
</tr>
<tr>
<td>Alloy components</td>
<td>C – Cr – B – Fe</td>
</tr>
<tr>
<td>Recommended applications</td>
<td>At high abrasive wear and high temperatures up to 750° C on average impact stress</td>
</tr>
<tr>
<td>Weld deposit properties</td>
<td>Hardness (acc.DIN 32525-4): approx. 900 HV10, approx. 67 HRC*</td>
</tr>
<tr>
<td>Main industries</td>
<td>Metallurgical plant, cement industry, chemical industry, petrochemical industry, etc.</td>
</tr>
<tr>
<td>Typical machine parts</td>
<td>Stone crusher, chutes, sieves, fans, fan housing, grids, discharge tables, bell linings, separators, converters, hot dust ducts, etc.</td>
</tr>
</tbody>
</table>
| 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 |
| Forms of delivery: | |
| Formats (mm) | Thickness of the plates  
Base material + Hardfacing (mm) |
| Standard formats | 2.400 x 1.150 (2)  
2.900 x 1.400 (2)  
5+3 (3), 6+4, 6+6, 8+5, 8+6, 8+8, 10+5, 10+10  
Further combinations on demand  
≤ 6 mm: 1 Layer  
> 6 mm: 2 Layers  
Base material 5 mm: Hardfacing 3 mm  
Base material 6 mm: Hardfacing 3 - 6 mm  
Base material ≥ 8 mm: Hardfacing 3 - 10 mm |
| Special body | Up to 3.900 x 1.900 (3)  
On demand  
≤ 6 mm: 1 Layer  
> 6 mm: 2 Layers  
Base material 6 mm: Hardfacing 4 - 6 mm  
Base material ≥ 8 mm: Hardfacing 4 - 10 mm |

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

*(1) dependent on thickness of plates  
* subject to common industrial fluctuations  
(2) Hardfaced area  
(3) max. 2.900 x 1.400 mm

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