VAUTID 143
Wear plates for highly wear resistant hardfacing and medium impact

Base materials
All weldable steels, mostly structural steels

Material type
High-chromium/high-carbon alloy on iron base with embedded Nb carbides
C – Cr – Nb – Fe

Alloy components

Recommended applications
Similar to VAUTID 100 but with higher resistance against abrasion and impact, average resistance against corrosion and temperatures up to 350° C

Weld deposit properties
Hardness (acc. DIN 32525-4): approx. 750 HV10, approx. 62 HRC*

Main industries
Mining, glass industry, metallurgical plant, cement works, power stations, etc.

Typical machine parts
Chutes, sieves, transfer stations, bunkers, mill linings, dust and ash ducts, 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>2.400 x 1.150 (2) 2.900 x 1.400 (2)</td>
<td>5+3 (3), 6+4, 6+6, 8+5, 8+6, 8+8, 10+5, 10+10 Further combinations on demand</td>
<td>≤ 6 mm: 1 Layer &gt; 6 mm: 2 - 4 Layers</td>
</tr>
<tr>
<td>Special body Up to 3.900 x 1.900 (2)</td>
<td>On demand</td>
<td>≤ 6 mm: 1 Layer &gt; 6 mm: 2 - 4 Layers</td>
<td>Base material 6 mm: Hardfacing 4 - 6 mm Base material ≥ 8 mm: Hardfacing 4 - 20 mm</td>
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</tbody>
</table>

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

VAUTID GROUP
Brunnwiesenstr. 5
73760 Ostfildern

Phone: + 49 711 / 44 04-0
Fax: + 49 711 / 44 20 39
E-Mail: vautid@vautid.de
Web: www.vautid.com