

VAUTID 100T

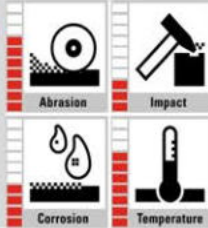
Wear plate for highly wear resistant hardfacing even at elevated temperatures



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VAUTID Material characteristics



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	<ul style="list-style-type: none"> - 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:

Formats (mm)	Thickness of the plates Base material + Hardfacing (mm)	Material Layers	Comments
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 Futher combinations on demand	≤ 6 mm: 1 Layer > 6 mm: 2 - 4 Layers	Base material 5 mm: Hardfacing 3 mm Base material 6 mm: Hardfacing 3-6 mm Base material ≥ 8 mm: Hardfacing 3-20 mm
Special body Up to 3.900 x 1.900 ⁽²⁾	On demand	≤ 6 mm: 1 Layer > 6 mm: 2 - 4 Layers	Base material 6 mm: Hardfacing 4-6 mm Base material ≥ 8 mm: Hardfacing 4-20 mm

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

(2) Hardfaced area
(3) max. 2.900 x 1.400 mm

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