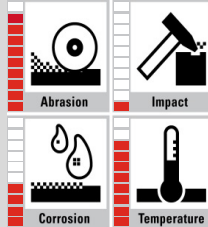


VAUTID 145

Wear plates for highly wear resistant hardfacing even at elevated temperatures

VAUTID®

VAUTID Material characteristics



Base materials	All weldable steels mostly boiler plates, high-alloyed temperature resistant CR-Ni-sheets and fine-grained steels
Material type Alloy components	High-chromium/high-carbon alloy on iron base with embedded special carbides. C – Cr – Mo – Nb – W – V – Fe
Recommended applications	At high abrasive wear and high temperatures up to 750° C on average corrosion- and low impact stress.
Weld deposit properties	Hardness (acc. DIN 32525-4): approx. 820 HV10, approx. 65 HRC*
Main industries	Mining, metallurgical plants, steel industry, cement industry, chemical industry, petrol chemical industry, etc.
Typical machine parts	Chutes, sieves, fans, fan housing, grids, discharge tables, bell linings, seperators, converters, host dust ducts, burner tubes, 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 Further combinations on demand	≤ 6 mm: 1 Layer > 6 mm: 2 - 3 Layers	Base material 5 mm: Hardfacing 3 mm Base material 6 mm: Hardfacing 3 - 6 mm Base material ≥ 8 mm: Hardfacing 3 - 15 mm
Special body Up to 3.900 x 1.900 ⁽²⁾	On demand	≤ 6 mm: 1 Layer > 6 mm: 2 - 3 Layers	Base material 6 mm: Hardfacing 4 - 6 mm Base material ≥ 8 mm: Hardfacing 4 - 15 mm

(2) Hardfaced area

(3) max. 2.900 x 1.400 mm

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

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