altrix®

Strong combination

altrix® multi-layer plates are composite materials and are manufactured as two- or three-layer plates by means of a roll-clad method developed in-house.
The base material guarantees high toughness and good weldability. The cladding material offers a high degree of hardness and wear resistance in hardened condition.

Main applications are dredging pipes, plow mold-boards, mill housing wear plates, mold manufacturing, paddles in log washers, chutes, slides and transfer components in the sand and cement industry as well as cladding in rock crushers.

Convincing advantages

- Longer service life due to high degree of hardness
- High resistance to fracture in the compound blank
- Smooth surface, good yielding behavior and minimal caking
- Outstanding welding properties in delivered condition and in hardened condition
- Simple fastening possibilities

greentec steel

Premium quality
with reduced carbon footprint

altrix®
greentec steel

Chemical composition

Typical values of the heat analysis in mass %

altrix®	C	Si	Mn	Cr	V	Al	Characteristics
Base material	0.09	–	0.60	–	–	0.04	tough, good weldability
Cladding: 1.2842	0.76	0.30	2.00	0.30	0.10	0.03	universally applicable, oil and water hardening

For all grades: P, S: 0.020 max.

Mechanical properties: Hardness of the cladding layers

altrix®	Hardness in as-delivered condition [HB] typ. value	Available hardness [HRC] reference values
1.2842	350	64 – 66

Distribution of layer thickness

altrix®	Cladding hard [%]	Base material mild [%]	Cladding hard [%]
cladding on one side	–	33	67
	–	50	50
	–	67	33
cladding on both sides	33	34	33
	44	33	23

Available dimensions

Minimum width 1,500 mm

altrix®	Plate thickness [mm]	Max. width [mm]	Max. length [mm]
1.2842	7.00 – 80.00	3,800	12,000

Cut plates are available upon request.

OUR PATH TO A GREENER FUTURE

Premium products in the greentec steel Edition

With greentec steel, voestalpine is pursuing an ambitious step-by-step plan in the long-term decarbonization of steel production. The declared objective is to achieve carbon-neutral production by 2050, and the initial steps have already been taken. Process-optimized production operations already prevent up to 10% of the direct CO_2 emissions at the Linz site. The material and processing properties of the steel are not affected in any way in this production route. Each voestalpine heavy plate product is available in premium quality in the greentec steel Edition with a reduced carbon footprint and unique benefits.

greentec steel

Premium quality with reduced carbon footprint

altrix®

greentec steel

Heavy plates (excl. heads and clad plates) – greentec steel Edition
Max. carbon footprint 2.21 kg CO_2e per kg of steel [1]

[1] per EN 15804+A2 (EPD methodology) cradle to gate

Please find further information and downloadable files at
www.voestalpine.com/stahl/en/Brands/altrix-R

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voestalpine
ONE STEP AHEAD.