

altrix®



Heavy plates

altrix®

Data sheet • September 2016

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 moldboards, mill housing wear plates, mold manufacturing, paddles in log washers, chutes, slides and transfer components in the sand 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

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:							
2842 [altrix 90]	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
2842 [altrix 90]	350	64 – 66

Available dimensions

Minimum width 1,500 mm

altrix®	Plate thickness [mm]	Max. width [mm]	Max. length [mm]
2842 [altrix 90]	7.00 – 80.00	3,800	12,000

Cut plates are available upon request.

Distribution of layer thicknesses

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

Please find further information and downloads at www.voestalpine.com/Grobblech.

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