



## Heavy plates

### altrix®

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#### 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<br>[HB]<br>typ. value | Available hardness<br>[HRC]<br>reference values |
|------------------|--|---|
| 2842 [altrix 90] | 350  | 64 – 66   |

## Available dimensions

Minimum width 1,500 mm

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

Cut plates are available upon request.

## Distribution of layer thicknesses

| altrix®                | Cladding<br>hard<br>[%] | Base material<br>mild<br>[%] | Cladding<br>hard<br>[%] |
|------------------------|-------------------------|------------------------------|-------------------------|
| 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](http://www.voestalpine.com/Grobblech).

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## voestalpine Steel Division

voestalpine-Straße 3  
4020 Linz, Austria  
T. +43/50304/15-9440  
[grobblech@voestalpine.com](mailto:grobblech@voestalpine.com)  
[www.voestalpine.com/grobblech](http://www.voestalpine.com/grobblech)