SALZGITTER FLACHSTAHL
A member of the Salzgitter Group

# DD14Ti

## Mild non-alloy extra steels for direct cold-forming

| | |
|---|---|
| Material no. | – |
| according to | – |
| Tensile strength class | A |

### Usage

For particularly complex forming operations, we offer steel grades DD14 Ti (titaniumalloyed) and DD14 Bor (boron-alloyed).

The user of these steel grades must make sure that his calculation, design and processing methods are appropriate for the material. The forming technique used must be suitable for the intended application and comply with the state-of-the-art.

### Chemical composition[1)]

(in percent by weight)

| | min. | max. |
|---|---|---|
| C | | 0.080 % |
| Mn | | 0.250 % |
| Si | | 0.050 % |
| P | | 0.025 % |
| S | | 0.025 % |
| Ti | | 0.020 % |
| Al | | 0.080 % |

1) Heat analysis

### Mechanical properties [1)]

| Nom. thick. e | Yield strength $R_{eL}/R_{p\,0,2}$ |
|---|---|
| <3.6 mm | 240 – 300 MPa |
| ≥3.6 mm | 230 – 290 MPa |

| Nom. thick. e | Tensile strength $R_m$ |
|---|---|
| <3.6 mm | 320 – 360 MPa |
| ≥3.6 mm | 310 – 360 MPa |

| Nom. thick. e | Total elong. A [2)] (long./trans.) |
|---|---|
| <3 mm | ≥ 32/34 % |
| ≥3 mm | ≥ 40/42 % |

1) The samples for the tensile test are taken at right angles to rolling direction unless the product width is opposed to this.

2) It applies to nominal thickness e:
e < 3 mm: $A_{80}$
e ≥ 3 mm: $A_5$

### Available dimensions

Hot-rolled coils unpickled, mill edge

| Thickness in mm | Width in mm |
|---|---|
| 1.50 – 1.79 | 900 –1250 |
| 1.80 – 1.99 | 900 –1390 |
| 2.00 – 2.24 | 900 –1540 |
| 2.25 – 2.49 | 900 –1700 |
| 2.50 – 2.99 | 900 –1880 |
| 3.00 – 3.99 | 900 –1880 |
| 4.00 – 6.00 | 900 –1880 |
| 6.01 – 12.70 | 900 –1880 |

Widths < 900 mm and thicknesses > 12.70 mm on request

Hot-rolled slit strip

| Thickness in mm | Width in mm |
|---|---|
| 1.50 – 1.79 | 100 – 515 |
| 1.80 – 1.99 | 100 – 635 |
| 2.00 – 2.24 | 100 – 760 |
| 2.25 – 7.00 | 100 – 800 |
| 7.01 – 8.00 | 140 – 800 |
| 8.01 – 9.00 | 175 – 800 |
| 9.01– 10.00 | 233 – 800 |

≤100 mm on request

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