SALZGITTER FLACHSTAHL
A member of the Salzgitter Group

DD15

Mild non-alloy steels for direct cold-forming

Usage

These steel grades are characterised by outstanding formability. They may be used for deep-drawing and forming by bending.

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.

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

Chemical composition[1)]

(in percent by weight)

	min.	max.
C		0.02%
Mn		0.25%
P		0.020%
S		0.020%

1) Heat analysis

Mechanical properties [1)]

Nom. thick. e	Yield strength $R_{eL}/R_{p\,0,2}$
<2 mm	150 – 300 MPa
≥2 mm	150 – 270 MPa

Nom. thick. e	Total elong. A [2)] (long./trans.)
<3 mm	≥ 32 %
≥3 mm	≥ 38 %

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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