



## DC05

Mild steels for cold forming

Material no.	1.0312
according to	DIN EN 10130 St 15 (FeP05)

### Chemical composition<sup>1)</sup>

(in percent by weight)

	min. in %	max. in %
C		0.06
P		0.025
S		0.025
Mn		0.35

1) Heat analysis

### Mechanical properties (transverse)

<b>Yield strength <math>R_{eL}/R_{p0.2}</math> in MPa</b>
≤ 180
<b>Tensile strength <math>R_m</math> in MPa</b>
270 – 330
<b>Min. total elongation <math>A_{80}</math> in %</b>
≥ 40
<b>Hardening exponent</b>
≥ 0.20
<b>Anisotropy</b>
≥ 1.9

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

### Available dimensions

Thickness in mm	Width in mm
0.35 <sup>2)</sup> – 0.39 <sup>2)</sup>	1,100 – 1,300
0.40 – 0.49	1,000 – 1,500
0.50 – 0.59	900 – 1,685
0.60 – 3.00	900 – 1,850
3.01 <sup>2)</sup> – 3.20 <sup>2)</sup>	1,000 – 1,500

2) On request

### Surface finish

The steel grade is available in the surface finishes A and B and O3 and O5.

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