DC05

Mild steels for cold forming

Material no.	1.0312
according to	DIN EN 10130
	St 15 (FePO5)

Chemical composition[1)]

(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)

Yield strength R_{eL}/$Rp_{0,2}$ in MPa
≤ 180

Tensile strength R_m in MPa
270 – 330

Min. total elongation A_{80} in %
≥ 40

Hardening exponent
≥ 0.20

Anisotropy
≥ 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[2)] – 0.39[2)]	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[2)] – 3.50[2)]	1,000 – 1,500

2) On request

Surface finish

The steel grade is available in the surface finishes A and B and 03 and 05.

Commitments regarding certain properties or a certain purpose of use require written agreements. Technical changes as well as typesetting and printing errors reserved.

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