



DC05+ZE

Mild steel grades for cold forming

Material no.	1.0312
according to	DIN EN 10152, Edition 08/03

Mechanical properties (transverse)

Yield strength $R_{eL}/R_{p0.2}$ in MPa

≤ 190

Tensile strength R_m in MPa

270 – 330

Total elongation A_{80} in %

≥ 39

Hardening exponent n_{90}

≥ 0.19

Anisotropy r_{90}

≥ 1.9

Available dimensions

Thickness in mm	Width in mm
0.50 – 0.59	900 – 1,685
0.60 – 3.00	900 – 1,850

Surface Finishes

This steel grade is available with surface finishes A and B and 03 and 05 respectively: The mild and the isotropic steel grades can only be supplied by agreement with surface finish B and 05 respectively in widths > 1,700 mm.

Chemical composition

(in percent by weight)

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

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