



DC06+ZE

Mild steel grades for cold forming

Material no.	1.0873
according to	DIN EN 10152, edition 08/03

Mechanical properties (transverse)

Yield strength $R_{eL}/R_{p0.2}$ in MPa
130 - 180

Tensile strength R_m in MPa
270 - 350

Total elongation A_{80} in %
≥ 41

Hardening exponent n_{90}
≥ 0.21

Anisotropy r_{90}
≥ 2.1

Available dimensions

Thickness in mm	Width in mm
0.50 - 0.59	900 - 1,585
0.60 - 0.69	900 - 1,685
0.70 - 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		0.02 %
P		0.020 %
S		0.020 %
Mn		0.25 %
Ti		0.3 % ¹⁾

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

¹⁾ Titanium can be replaced by niob. Carbon and nitrogen must be fixed completely.