



DC06

Mild steels for cold forming

Material no.	1.0873
according to	DIN EN 10130 IF 18 (FeP06)

Chemical composition¹⁾

(in percent by weight)

	min. in %	max. in %
C		0.02
P		0.020
S		0.020
Mn		0.25
Ti		0.3 ²⁾

1) Heat analysis

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

Mechanical properties (transverse)

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

Tensile strength R_m in MPa
270 – 350

Total elongation A_{80} in %
≥ 38

Hardening exponent
≥ 0.22

Anisotropy
≥ 1.8

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 finish

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

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

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