DC06+ZE

Electro-zinc coated and pre-painted mild steel grades for cold forming

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

Chemical composition

(in percent by weight)

	min.	max.
C		0.02 %
P		0.02 %
S		0.02 %
Mn		0.25 %
Ti		0.3 % [1]

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

Mechanical properties [1] (transverse)

Yield strength $R_{eL}/R_{p\,0,2}$	≤180 MPa
Tensile strength R_m	270 – 330 MPa
Total elongation A_{80}	≥38 %
Hardening exponent	≥0.22
Anisotropy	≥1.8

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

1) All given mechanical properties refer to the carrier material before painting.

Available dimensions [1]

Thickness in mm	Width in mm
0.50 – 0.62	900 – 1.510
0.63 – 0.88	900 – 1.685
0.89 – 2.00	900 – 1.850

1) The maximum cross-section (product: width x thickness) may not exceed 2,800 mm².

Coating systems

Varnish [1]

SP	Polyester
SP-PA	Polyamide modified polyester
PUR	Polyurethane
PUR-PA	Polyamide modified polyurethane

1) Further steel grades with coating systems on request.

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