

## DC06

Mild, prepainted Steel grades  
for cold forming

Material no.	1.0873
according to	DIN EN 10130 : 1991

Chemical composition  
(in percent by weight)

	min.	max.
C		0.02 %
P		0.02 %
S		0.02 %
Mn		0.25 %
Ti		0.3 % <sup>1)</sup>

<sup>1)</sup> Titanium can be replaced by niob. Carbon and nitrogen must be fixed completely.

### Mechanical properties <sup>1)</sup> (transverse)

<b>Yield strength <math>R_{el}/R_{p0,2}</math></b>	$\leq 180$ MPa
<b>Tensile strength <math>R_m</math></b>	270 – 330 MPa
<b>Total elongation A80</b>	$\geq 38$ %
<b>Hardening exponent</b>	$\geq 0.22$
<b>Anisotropy</b>	$\geq 1.8$

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

<sup>1)</sup> All given mechanical properties refer to the carrier material before painting.

### Available dimensions <sup>1)</sup>

Thickness in mm	Width in mm
0.50 – 0.62	900 – 1,510
0.63 – 0.88	900 – 1,685
0.89 – 3.00	900 – 1,850

<sup>1)</sup> The maximum cross-section (product: width x thickness) may not exceed 3,000 mm<sup>2</sup>.

### Coating systems

Varnish <sup>1)</sup>

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

<sup>1)</sup> Further steel grades with coating systems on request.