

## DC06

### Mild, prepainted Steel grades for cold forming

Material no.	<b>1.0873</b>
according to	<b>DIN EN 10130 : 1991</b>

#### 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)

Yield strength $R_{eL}/R_{p0.2}$	$\leq 180$ MPa
Tensile strength $R_m$	270 – 330 MPa
Total elongation $A_{80}$	$\geq 38$ %
Hardening exponent	$\geq 0.22$
Anisotropy	$\geq 1.8$

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 – 2.00	900 – 1,850

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