

DC05

Mild, prepainted Steel grades
for cold forming

Material no.	1.0312
according to	DIN EN 10130 : 1991

Chemical composition (in percent by weight)

	min.	max.
C		0.060 %
P		0.025 %
S		0.025 %
Mn		0.350 %

Mechanical properties ¹⁾ (transverse)

Yield strength $R_{el}/R_{p0,2}$
≤ 180 MPa

Tensile strength R_m
270 – 330 MPa

Total elongation A_{80}
≥ 40 %

Hardening exponent
≥ 0.20

Anisotropy
≥ 1.9

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 – 1,685
0.63 – 3.00	900 – 1,850

¹⁾ The max. cross-section (product: width x thickness) may not exceed 3,000 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.