

DC01 Cold Rolled Steel

1.0330 · DC01 is the base grade of EN 10130 cold-rolled low-carbon sheet — the plain DKP sheet of the trade: yield ≤ 280 MPa, tensile 270–410 MPa, elongation ≥ 28 %, smooth matt surface, lightly oiled, for bending, roll-forming, punching, welding and painting. Material number 1.0330, old name St 12 / DC01 (A). We stock 0.40–3.0 mm in 1 000–1 500 mm widths at Dilovası as coil and cut sheet.

1.0330	Yield ≤ 280 MPa	A80 ≥ 28 %	0.40–3.0 mm stock	Surface A / B · matt · oiled
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DKP is what a Turkish workshop calls any cold-rolled sheet, and DC01 is what the certificate says: the clean, flat, oiled sheet that becomes cabinets, panels, furniture, ducting, drums and a thousand pressed brackets. It is our largest cold-rolled stock item, cut to length and slit on our own lines.

CHEMICAL COMPOSITION

Element	C	Mn	P	S
max. % (ladle)	0.12	0.60	0.045	0.045

Typical heat: C 0.04–0.06, Mn 0.20–0.30, Si ≤ 0.03, Al-killed.

MECHANICAL PROPERTIES AND FORMABILITY

Property	Requirement	Typical value	Note
Yield strength Rp0.2	≤ 280 MPa	180–240 MPa	≤ 8 days after production: no upper limit
Tensile strength Rm	270–410 MPa	300–350 MPa	
Elongation A80	≥ 28 %	32–38 %	≥ 0.70 mm; thinner minus 2 %
Bend test	0 × t (180°)	passes	
r90 / n90	not specified	≈ 1.0 / 0.17	bending grade

EQUIVALENT GRADES

System	Grade	Note
DIN 1623 (old)	St 12	historic German
EN 10130 (1991)	Fe P01	previous edition
JIS G3141	SPCC	
ASTM A1008	CS Type B	
GB/T 5213	DC01	

SURFACE FINISH, ROUGHNESS AND OILING

Code	Meaning	Ra (µm)	Typical use
A	normal surface — minor defects (pores, scratches, slight marks) allowed	—	general fabrication, hidden parts
B	best surface — the better side free of defects that impair a uniform paint finish	—	visible painted or plated parts
b (bright)	smooth roll finish	≤ 0.4	chrome plating, decorative
g (semi-bright)	standard finish	0.4–0.9 (typ. 0.6–1.9)	painting, powder coating
m (matt)	shot-blasted rolls	0.6–1.9	deep drawing, paint adhesion
r (rough)	heavy texture	> 1.6	special
oiling	light rust-preventive oil both sides (standard); dry or heavy oil on request	—	

Order example: plain cold-rolled is ordered as "DC01 A m, oiled". The Turkish trade name DKP comes from dekape (pickled) and refers to the pickled hot-rolled substrate that every cold-rolled coil starts from — it is not a separate grade.

STANDARDS

EN 10130:2006 — DC01, 1.0330 · EN 10131 — tolerances of cold-rolled flat products · EN 10204 3.1 · Former DIN 1623 St 12 / EN 10130 Fe P01