



C10E

Case-hardened steels

Material no.	1.1121
according to	DIN EN 10084
Tensile strength class A	

General

When either hot- or cold-rolled, casehardened steels are predominantly used for transmission parts (Plate springs, clutch disks). The hot-rolled steels offer good punching quality and formability. After case-hardening, the finished components have a very strong core, whereas the surface is characterised by good wear resistance.

As the melting and hot-rolling conditions have an effect on further treatment at the customer, the customer should always state the intended use when placing an order.

Chemical composition¹⁾

(in percent by weight)

	min. in %	max. in %
C	0.07	0.13
Si		0.40
Mn	0.30	0.60
P		0.025
S		0.035
Cr		0.41
Mo		0.10
Ni		0.40
Cu		0.30

1) Heat analysis

Available dimensions

Hot-rolled coils unpickled, mill edge

Thickness in mm	Width in mm
1.50 - 1.79	900 - 1,250
1.80 - 1.99	900 - 1,390
2.00 - 2.24	900 - 1,540
2.25 - 2.70	900 - 1,700
2.71 - 5.99	900 - 1,880
6.00 - 19.99	900 - 1,950

Thicknesses up to 25 mm on request.

Widths up to 2,000 mm on request.

Hot-rolled coils pickled, mill edge

Thickness in mm	Width in mm
1.50 - 1.79	900 - 1,250
1.80 - 1.99	900 - 1,390
2.00 - 2.24	900 - 1,540
2.25 - 2.70	900 - 1,700
2.71 - 5.99	900 - 1,880
6.00 - 12.49	900 - 1,530

Hot-rolled coils pickled, trimmed edge

Thickness in mm	Width in mm
1.50 - 1.79	900 - 1,230
1.80 - 1.99	900 - 1,380
2.00 - 2.24	900 - 1,500
2.25 - 2.70	900 - 1,680
2.71 - 6.00	900 - 1,880
6.01 - 10.00	900 - 1,510

Hot-rolled slit strip

Thickness in mm	Width in mm
1.50 - 1.79	100 - 515
1.80 - 1.99	100 - 635
2.00 - 2.24	100 - 760
2.25 - 7.00	100 - 800
7.01 - 8.00	140 - 800
8.01 - 9.00	175 - 800
9.01 - 10.00	233 - 800

Widths < 100 mm on request.

Condition of delivery, scope of testing and certificate

The provisions of DIN EN 10084, chapters 6.4.1 und 8 shall apply for delivery and inspection. All case-hardened steels are delivered in a hot-rolled and untreated condition.

Test certificates according to DIN EN 10204 can be supplied as follows: EDP, remote data transmission, fax, e-mail, paper.

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