



## C75S

Quenched and tempered steels

<b>Material no.</b>	<b>1.1248</b>
according to	DIN EN 10132
Tensile strength class D	

### General

Quenched and tempered steels are used for components subjected to high stresses where the combination of high strength, wear resistance and toughness is particularly important. We supply high-grade steel as well as stainless steel according to DIN EN ISO 683-1 and EN 10132-4, with also stand out for their high degree of purity.

Quenching and tempering gives the materials their special properties. The user of these steel grades must make sure that his calculation, design and processing methods are appropriate for the material. Temperature control during quenching and tempering is essential to achieve the desired component properties, however, it must be matched to the respective application.

The steel grade C75S is supplied as input stock for cold rolling. 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 composition<sup>1)</sup>

(in percent by weight)

	min. in %	max. in %
C	0.70	0.80
Si	0.15	0.35
Mn	0.60	0.90
P		0.025
S		0.025
Cr		0.40
Ni		0.40
Mo		0.10

1) Heat analysis

### Available dimensions

Hot-rolled coils unpickled, mill edge

Thickness in mm	Width in mm
2.00 - 2.20	900 - 1,300
2.21 - 2.99	900 - 1,350
3.00 - 3.99	900 - 1,450
4.00 - 4.99	900 - 1,500
5.00 - 5.99	900 - 1,650
6.00 - 19.99	900 - 1,700

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
2.00 - 2.24	900 - 1,300
2.25 - 2.99	900 - 1,350
3.00 - 3.99	900 - 1,450
4.00 - 4.99	900 - 1,500
5.00 - 9.99	900 - 1,530
10.00 - 10.99	900 - 1,400
11.00 - 11.99	900 - 1,250
12.00 - 12.49	900 - 1,150

Thicknesses < 2 mm and > 12.70 mm on request.

Trimmed edge material on request.

Hot-rolled slit strip

Thickness in mm	Width in mm
2.00 - 2.99	100 - 640
3.00 - 4.60	100 - 690
4.61 - 6.00	100 - 740

Widths < 100 mm on request.

Thicknesses > 6 mm on request.

### Examples of application

Typical applications are link plates, belt buckles, springs, steel caps for safety shoes, saw blades, knives and scissors.

### Condition of delivery, scope of testing and certificate

The provisions of DIN EN ISO 683-1, chapters 5.3.1 und 6 shall apply for delivery and inspection. All quenched and tempered 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.

### Note

We also supply steel grades C25 - C60 or rather C25E - C60E as per DIN EN ISO 683 part 1 (Non alloy steels for quenching and tempering).

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