

Precision Steel

# precidur<sup>®</sup> DD12

Product information for hot-rolled precision strip made in Hohenlimburg



thyssenkrupp

Version 11/24

## Mild, unalloyed steel

Mild, unalloyed steels are supplied in accordance with DIN EN 10111. The BU Precision Steel supplies hot-rolled strip with very low earing for the deep drawing of sleeves and similar components.

Beyond the standard grades we also offer a wide variety of special grades optimized for different purpose.

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## precidur<sup>®</sup>

- is used in virtually all industry sectors.
- offers close thickness tolerances similar to cold-rolled strip, optimum surface finishes and consistent material properties over the entire strip length and width.
- is characterized by its symmetrical strip profiles and mill edges.
- is the sum of all the experience we have gained in more than 100 years of manufacturing and processing steel.

## Technical features

Mild, unalloyed steel

Material number: 1.0398

Material name: DD12

Proprietary brand: precidur® DD12

Old name: STW 23

Delivery specification: DIN EN 10111

Application: Mild unalloyed steel with particular suitability for cold forming

### Chemical composition

Ladle analysis mass percentages	C [%]	Si [%]	Mn [%]	P [%]	S [%]	Al [%]
min.	-	-	-	-	-	0.015
max.	0.10	0.03	0.45	0.025	0.015	0.070

Further special analyses available

### Mechanical properties

Longitudinal to rolling direction	Yield strength R <sub>eL</sub> [MPa]	Tensile strength R <sub>m</sub> [MPa]	Elongation A <sub>5</sub> [%]	A <sub>80</sub> [%]
Rolled condition*	170 - 320	max. 420	min. 30	min. 26

\* Restricted mechanical property ranges and specific processing properties can be agreed on request

### Possible delivery options

Options	Mill edge (NK) Cut edge (GK)	pickled	unpickled	slit	trimmed	Cut to length
precidur® DD12	NK or GK	✓	or ✓	✓	✓	✓

### General thickness tolerances

Strip thickness [mm]	1.5 – 2.54	2.55 – 4.03	4.04 – 6.03	6.04 – 8.03	8.04 – 9.03	9.04 – 11.03	11.04 – 14.03	14.04 – 16.00
Standard tolerances [mm]	± 0.04	± 0.04	± 0.05	± 0.055	± 0.06	± 0.07	± 0.08	± 0.10
Special tolerances [mm]	± 0.03	± 0.035	± 0.04	± 0.045	± 0.05	± 0.055	± 0.06	± 0.07

### General delivery options

Coil inner diameter: standard 508 mm / optional 610 mm

Coil outer diameter: max. 1,890 mm

Coil weight: max. 20.5 kg/mm strip width

Strip width\*: max. 720 mm

Strip thickness\*: 1.5 – 16 mm

\* May be subjected to restrictions.

## Application examples for mild, unalloyed steels



Special mill grades feature unique thyssenkrupp properties. Other terms and conditions of supply not specified here will be based on the applicable specifications. The specifications used will be those valid on the date of publication of this product information.

Please contact our sales/technical customer support team for detailed information.

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