

Precision Steel

# precidur<sup>®</sup> 100Cr6 / 102Cr6

Product information for hot-rolled precision strip made in Hohenlimburg



thyssenkrupp

Version 9/21

## Tool steel

Hardenable tool steels from BU Precision Steel are used in roller and ball bearings and a wide variety of saw and blade applications such as circular saw blades, cutting knives, paper cutters and die plates.

The special advantages of the hot-rolled precision strip lie in its uniform properties and defined microstructure combined with optimum cleanness.

Close analysis ranges tailored to specific purposes and precisely controlled rolling parameters guarantee consistent and outstanding processability and optimum heat treatment results, yielding maximum wear resistance.

## 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.

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## Technical features

### Tool steel

Material number:	1.3505 / 1.2067
Material name:	100Cr6 / 102Cr6
Proprietary brand:	precidur® 100Cr6 / 102Cr6
Delivery specification:	DIN EN ISO 4957, DIN EN ISO 683-17
Application:	Tool steels for use in ball and roller bearings, rotary cutters and machining tools

### Chemical composition

Ladle analysis mass percentages	C [%]	Si [%]	Mn [%]	P [%]	S [%]	Cr [%]	Al [%]	Ni [%]	Mo [%]	Cu [%]
min.	0.95	0.15	0.25	-	-	1.40	-	-	-	-
max.	1.05	0.35	0.40	0.020	0.008	1.60	0.050	0.20	0.05	0.15

Further special analyses available

### Mechanical properties

Longitudinal to rolling direction	Tensile strength R <sub>m</sub> [MPa]	Elongation A <sub>5</sub> [%]
Rolled condition	Ø 1250	-
GKZ annealed	max. 660	min. 26

Restricted strength ranges can be agreed on request

### Possible delivery options

Options	Mill edge (NK) Cut edge (GK)	pickled	unpickled	slit	trimmed	Cut to length	annealed	not annealed
precidur® 100Cr6/102Cr6	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.

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