

Precision Steel

# precidur<sup>®</sup> 64NiNb4

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 cleanliness.

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:	1.2751
Material name:	64NiNb4
Proprietary brand:	precidur® 64NiNb4
Delivery specifications:	acc. to Stahl-Eisen-Liste
Application:	Tool steel, for saws and other applications

### Chemical composition

Ladle analysis mass percentages	C [%]	Si [%]	Mn [%]	P [%]	S [%]	Cr [%]	Al [%]	Nb [%]	Ni [%]
min.	0.60	0.10	0.20	-	-	0.05	-	0.02	0.80
max.	0.70	0.35	0.60	0.020	0.010	0.20	0.040	0.06	1.10

### Mechanical properties

Longitudinal to rolling direction	Tensile strength R <sub>m</sub> [MPa]
Rolled condition	Ø 800

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® 64NiNb4	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.