

68CrNiMo

Product information for hot-rolled precision strip



thyssenkrupp

Version 1/18

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.

Hohenlimburg precision strip:

- 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:	Special mill grade
Material name:	68CrNiMo
Application:	Tool steel for various applications

Chemical composition

Ladle analysis mass percentages	C [%]	Si [%]	Mn [%]	P [%]	S [%]	Cr [%]	Al [%]	Ni [%]	Mo [%]
min.	0.60	0.10	0.30	–	–	0.40	–	0.50	0.10
max.	0.75	0.40	0.60	0.025	0.010	0.65	0.040	0.80	0.30

Further special analyses available

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

Possible delivery options

Options	Mill edge (NK) Cut edge (GK)	pickled unpickled		slit	trimmed	cut to length	annealed	not annealed
		✓	or ✓	✓	✓	✓	✓	or ✓
68CrNiMo	NK or GK	✓	or ✓	✓	✓	✓	✓	or ✓

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

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