Precision Steel

precidur[®] C67/C67S

Product information for hot-rolled precision strip made in Hohenlimburg



Version 11/24

Unalloyed tool steel

Hardenable unalloyed tool steels made of precidur® are employed for the production of cold rolled springs steels in accordance with DIN EN 10132.

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.

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precidur®

- 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

Heat treatable steel	
Material number:	1.0603 / 1.1231
Material name:	C67 / C67S
Proprietary brand:	precidur [®] C67 / C67S
Delivery specification:	analogous to DIN EN 10132
Application:	Spring steel

Chemical composition										
Ladle analysis mass percentages	C [%]	Si [%]	Mn [%]	P [%]	S [%]	Cr [%]	Mo [%]	Ni [%]	AI [%]	Cu [%]
min.	0.66	0.15	0.60	-	-	0.10	-	-	-	-
max.	0.73	0.35	0.90	0.025	0.015	0.40*	0.10	0.20	0.015	0.20
Further special analyses available	* Cr-free va	iant available								

Further speci	al analyses	available
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* Cr-free variant available

Mechanical properties			
Longitudinal to rolling direction	Tensile strength R _m [MPa]	Elongation A ₅ [%]	A ₈₀ [%]
Rolled condition*	Ø 910	min. 11	-
GKZ annealed	max. 640	min. 22	min. 18

*Restricted mechanical property ranges can be agreed on request.

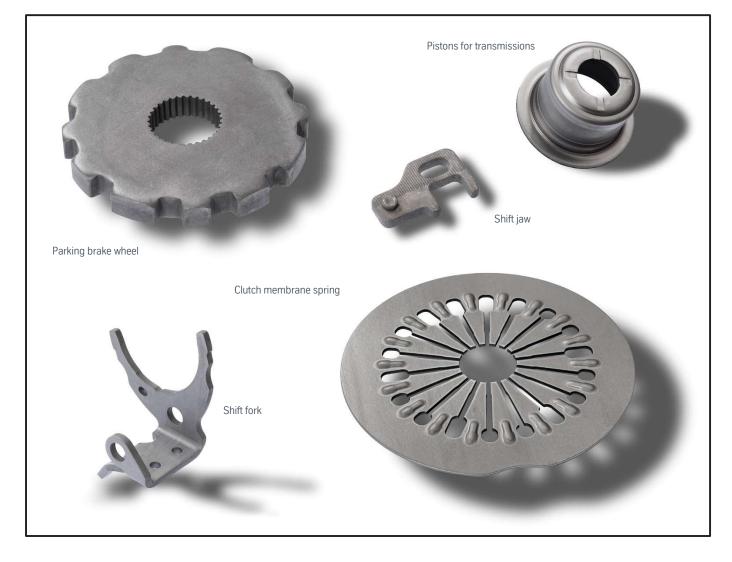
Possible delivery options								
Options	Mill edge (NK) Cut edge (GK)	pickled	unpickled	slit	trimmed	Cut to length	annealed	not annealed
precidur [®] C67/C67S	NK or GK	🗸 or	✓	1	✓	✓	√	✓

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 unalloyed tool steel



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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