Precision Steel

precidur® 75Cr1





Version 01/22

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®

- 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: 1.2003 Material name: 75Cr1

Proprietary brand: precidur® 75Cr1

Delivery specification: based on DIN EN 10132

Application: Tool steel for various applications

Chemical composition						
Ladle analysis mass percentages	C [%]	Si [%]	Mn [%]	P [%]	S [%]	Cr [%]
min.	0.70	0.25	0.65	-	-	0.30
max.	0.80	0.40	0.80	0.025	0.010	0.40

Further special analyses available

Mechanical properties				
Longitudinal to rolling direction	Tensile strength R_m [MPa]	Yield strength R _{0,2} [MPa]	Elongation A ₅ [%]	A ₈₀ [%]
Rolled condition	Ø 960	max. 640	min. 11	-
GKZ annealed	max. 680	-	min. 20	min. 14

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® 75Cr1	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.