



precidur®

is our thyssenkrupp Hohenlimburg trademark for premium-quality precision strip. And it epitomizes the way our service and support are systematically focused on the individual and highly exacting requirements of our customers.

precidur® our brand for precision strip

precidur® stands for extremely close thickness and profile tolerances in widths up to 720mm and thicknesses of 1.5 to 16mm; optimum surface properties, whether black or pickled; homogeneous material properties, full hard and annealed; a wide variety of grades, from unalloyed to high ductility and high strength to high-alloy; rounded mill edges without burrs or microcracks that ensure no embrittlement due to work hardening. All in all, precidur® offers the ideal prerequisites for optimum direct forming and excellent cold rolling process properties. precidur® stands for our qualitative edge, built

up over more than 150 years, extended through ongoing modernization measures and proof of our customer focus and our all-round reliability. Full process automation, unparalleled speed of production, short-term availability, maximum flexibility in putting together even small, tailored batch sizes, constant transparency and data availability, rapid response to short-notice change requests—in fact we're ideally prepared for every eventuality. Or to put it another way: We are your premium partner for premium precision steel. Today, tomorrow and beyond. Together with precidur® we look forward to your challenge.

The advantages of precidur® at a glance:



Extremely close thickness and profile tolerances



Wide variety of grades



Homogeneous material properties, optimum surface quality



Tailored batch sizes



Ideal for processing and forming



Quick, flexible and competent support and service

Boron-alloyed case-hardening and heat-treatable steels

precidur® boron-alloyed case-hardening and heat-treatable steels are supplied in accordance with DIN EN ISO 683-2, DIN EN ISO 683-3 and the Stahl-Eisen list. They are a cost-efficient alternative for the substitution of heat-treatable steels and offer significantly better cold formability due to their low carbon content.

Depending on grade and application, boron-alloyed steels can be fine blanked without prior annealing. Boron steels offer good processing and forming properties even in the hot-rolled condition. Gear arm Shift fork Clamping bushing The cost-efficient Rear axle tube alternative to casehardening and heattreatable steels. Drive shaft for

agricultural machinery

Technical features

Mechanical properties						
	Tensile strength	R _m [MPa]	Elongation	A ₅ min. [%]	Material number	
	full hard*	annealed	full hard	annealed		
precidur® HLB 8	Ø 490	_	min. 22	_	1.7135	
precidur® HLB 17	Ø 560	_	min. 20	_	1.5506	
precidur® HLB 20	Ø 600	max. 550	min. 19	min. 25	1.5530	
precidur® HLB 22	Ø 610	max. 580	min. 19	min. 23	1.5528	
precidur® HLB 27	Ø 650	max. 580	min. 16	min. 22	1.7182	
precidur® HLB 30	Ø 630	max. 570	min. 22	min. 24	1.5531	
precidur® HLB 34	Ø 650	max. 580	min. 20	min. 25	1.5534	
precidur® HLB 37	Ø 680	max. 580	min. 20	min. 24	1.5524	
precidur® HLB 38	Ø 700	max. 590	min. 18	min. 24	1.5532/1.5537	
precidur® HLB 42	Ø 750	max. 610	min. 17	min. 24	1.5527	

^{*} Modified strength target values can be agreed on request.

Possible delivery options for MC grades								
Options	Mill edge Cut edge	pickled	black	slit	trimmed	cut to length	annealed	non- annealed
precidur® HLB	Mill edge or cut edge	√	√	√	√	√	√	√

General thickness tolerances for precidur®								
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 for precidur®		
Coil inside diameter – Ø:	Standard 508mm / optional 610mm	
Coil outside diameter – Ø:	max. 1,890mm	
Coil weight:	max. 20.5 kg/mm strip width	
Strip width:	max. 720mm	
Strip thickness:	1.5 – 16mm	

Steel Precision Steel

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