

Precision Steel

# precidur® S 355 JR/J0/J2

Product information for hot-rolled precision strip made in Hohenlimburg



thyssenkrupp

Version 11/24

## Structural steel

General structural steels are standardized in accordance with DIN EN 10025. Through appropriate temperature control during hot rolling BU Precision Steel supplies hot-rolled strip with a carbon content of less than 0.20% with a uniform, fine microstructure.

By ensuring very low sulfur contents and realizing other measures during steel production it is possible to supply general structural steels with good cold formability (flanging, roll forming).

## 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

### General structural steel

Material number:	1.0045 / 1.0553 / 1.0577
Material name:	S355JR / S355J0 / S355J2
Proprietary brand:	precidur® S355JR/J0/J2
Old name:	St 52-2
Delivery specification:	DIN EN 10025-2
Application:	Steels for stressed parts in machinery and steel structures

### Chemical composition

Ladle analysis mass percentages	C [%]	Si [%]	Mn [%]	P [%]	S [%]	N [%]	Cu [%]	Al [%]
min.	0.15	-	-	-	-	-	-	0.015
max.	0.20	0.30	1.60	0.025	0.015	0.010	0.20	0.080

Further special analyses available

### Mechanical properties

Longitudinal to rolling direction	Yield strength R <sub>eH</sub> [MPa]	Tensile strength R <sub>m</sub> [MPa]	Elongation A <sub>5</sub> [%]	A <sub>80</sub> [%]
Rolled condition*	min. 355	470 - 630	min. 22	min. 18

\* The mechanical characteristics shown match the „JR“ variant (EN10025-2) in thickness ≥ 3.0 mm.  
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
precidur® S355JR	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.