

## 26MnB5

### Consistent formability combined with excellent strength after heat treatment

Steel grade 26MnB5 is a hot-rolled, uncoated product which is easy to process into relatively complex shapes. After quenching and tempering, the final product will achieve exceptional hardness – offering reliable strength and abrasion resistance in demanding applications with tough duty cycles.

Homogeneous material properties allow trouble-free, repeatable processing. High levels of cleanliness help to ensure consistent formability and weldability.

The 26MnB5 grade is used to deliver reliable end product performance in a range of applications. These include drive and gear shafts, stabiliser bars and precision tubes for the automotive sector, tubular goods used in the oil and gas industry, and harvesting equipment such as agricultural ploughs.

#### Mechanical properties

	Substrate	Test direction	Yield strength	Tensile strength	Elongation <sup>1</sup>
			R <sub>p</sub> (N/mm <sup>2</sup> )	R <sub>m</sub> (N/mm <sup>2</sup> )	A <sub>50</sub> (%)
26MnB5 Typical	Hot-rolled	L	400	630	25

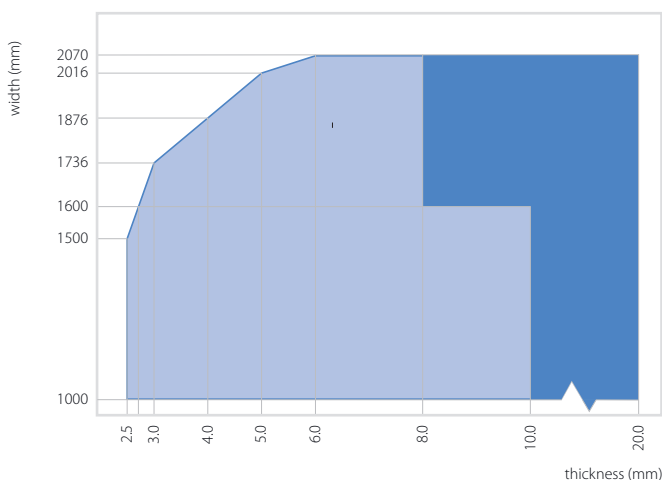
<sup>1</sup>The index of elongation (A%) refers to the type of tensile test sample

#### Chemical composition

	C		Mn		P	S	Si		Al		Cr		Ti		B	
	min.	max.	min.	max.	max.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
26MnB5	0.240	0.280	1.200	1.400	0.015	0.010	0.200	0.250	0.020	0.060	0.100	0.200	0.020	0.035	0.0020	0.0035

All values are in weight%

#### Dimensional window of 26MnB5



- 26MnB5 Hot-rolled dry
- Pickled and oiled

Please contact Tata Steel or your local sales representative for alternative chemistries or dimensions which fall outside of the matrix.

#### CEV

The typical carbon equivalent value is 0.52.

#### Tolerances

Thickness tolerances are according to EN 10051. Test certificates 2.2/3.1 are available according to EN 10204.

#### Product support

We want you to get the best from our 26MnB5 grade. Our technical engineers and trained sales staff are always happy to answer any of your questions regarding our boron manganese family or any other steel types. Our engineers are available to assist you with process and product design optimisation for improved throughput, yield and end product performance.

#### Further information

E: [connect.engineering@tatasteeleurope.com](mailto:connect.engineering@tatasteeleurope.com)

**Tata Steel**

Engineering

Wenckebachstraat 1

1951 JZ Velsen-Noord

The Netherlands

E: [connect.engineering@tatasteelurope.com](mailto:connect.engineering@tatasteelurope.com)

[www.tatasteelurope.com/engineering](http://www.tatasteelurope.com/engineering)

E0003:EN:PDF:0624

[www.tatasteelurope.com](http://www.tatasteelurope.com)

While care has been taken to ensure that the information contained in this publication is accurate, neither Tata Steel, nor its subsidiaries, accept responsibility or liability for errors or for information which is found to be misleading. Before using products or services supplied or manufactured by Tata Steel and its subsidiaries, customers should satisfy themselves as to their suitability.

Copyright 2024  
Tata Steel IJmuiden B.V.



Scan the  
latest product  
information