



S235B

Non-alloy steel for structural purposes

CHEMICAL COMPOSITION: (heat analysis according to the ISO 630-2:2021 standard)

	C % For thicknesses in mm ≤16 >16≤40 >40			Si %	Mn %	¹⁾ P %	S %	N %	Cu %
FROM	-	-	-	-	-	-	-	-	-
TO	0,17	0,17	0,20	-	1,40	0,035	0,035	0,012	0,55

¹⁾P and S = max. 0,040% for long products

*MECHANICAL FEATURES: (according to the EN ISO 683-7:2024 standard)

Thickness mm	Rolled + peeled rolled (+SH)		Cold drawn (+C)		
	hardness HB	Rm (MPa)	Rp _{0,2} minimum values (MPa)	Rm (MPa)	A ₅ % minimum values
≥5≤10			355	470 - 840	8
>10≤16			300	420 - 770	9
>16≤40	107 – 152	360 - 510	260	390 - 730	10
>40≤63	107 – 152	360 - 510	235	380 - 670	11
>63≤100	107 - 152	360 - 510	215	360 - 640	11

* Delivery condition: as rolled.

PROPERTIES :

Weldability:

This steel grade is generally suitable to welding.

Notes:

CORRESPONDENCE WITH OTHER STANDARDS (purely as an indication) :

EN 10025-2:2019 S235JRC	DIN 17100 RSt 37-2	BS 4360 40B
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