

## Material properties

<b>Material</b>	<b>RSt 37-2 (Germany / DIN)</b>
<b>Group</b>	Structural and constructional steels
<b>Subgroup</b>	DIN 17100 Steels for general structural purposes
<b>Comment</b>	Quality standard; DIN 17100 was superseded by EN 10025, EN 10222-1, EN 10250-1 and EN 10250-2
<b>Application</b>	-

Yield Stress[MPa]			
Dimension	Min	Max	Approx
Normalized; $\geq 0.5 < 1$ mm <b>Note:</b> Yield stress is Upper Yield Stress (ReH)	235	-	-
Normalized; $\geq 1 < 1.5$ mm <b>Note:</b> Yield stress is Upper Yield Stress (ReH)	235	-	-
Normalized; $\geq 1.5 < 2$ mm <b>Note:</b> Yield stress is Upper Yield Stress (ReH)	235	-	-
Normalized; $\geq 2 < 2.5$ mm <b>Note:</b> Yield stress is Upper Yield Stress (ReH)	235	-	-
Normalized; $\geq 2.5 < 3$ mm <b>Note:</b> Yield stress is Upper Yield Stress (ReH)	235	-	-
Normalized; $\geq 3 \leq 16$ mm <b>Note:</b> Yield stress is Upper Yield Stress (ReH)	235	-	-
Normalized; $> 16 \leq 40$ mm <b>Note:</b> Yield stress is Upper Yield Stress (ReH)	225	-	-
Normalized; $> 40 \leq 63$ mm <b>Note:</b> Yield stress is Upper Yield Stress (ReH)	215	-	-
Normalized; $> 63 \leq 80$ mm <b>Note:</b> Yield stress is Upper Yield Stress (ReH)	215	-	-
Normalized; $> 80 \leq 100$ mm <b>Note:</b> Yield stress is Upper Yield Stress (ReH)	215	-	-

Tensile Stress[MPa]			
Dimension	Min	Max	Approx
Normalized; $\geq 0.5 < 1$ mm	360	510	-
Normalized; $\geq 1 < 1.5$ mm	360	510	-
Normalized; $\geq 1.5 < 2$ mm	360	510	-
Normalized; $\geq 2 < 2.5$ mm	360	510	-
Normalized; $\geq 2.5 < 3$ mm	360	510	-
Normalized; $\geq 3 \leq 16$ mm	340	470	-
Normalized; $> 16 \leq 40$ mm	340	470	-

### Tensile Stress[MPa]

Dimension	Min	Max	Approx
Normalized; > 40 <= 63 mm	340	470	-
Normalized; > 63 <= 80 mm	340	470	-
Normalized; > 80 <= 100 mm	340	470	-

### Elongation A5 [%]

Dimension	Min	Max	Approx
Normalized; >= 0.5 < 1 mm <b>Note:</b> Lo = 80 mm; (long.)	17.0	-	-
Normalized; >= 1 < 1.5 mm <b>Note:</b> Lo = 80 mm; (long.)	18.0	-	-
Normalized; >= 1.5 < 2 mm <b>Note:</b> Lo = 80 mm; (long.)	19.0	-	-
Normalized; >= 2 < 2.5 mm <b>Note:</b> Lo = 80 mm; (long.)	20.0	-	-
Normalized; >= 2.5 < 3 mm <b>Note:</b> Lo = 80 mm; (long.)	21.0	-	-
Normalized; >= 3 <= 16 mm <b>Note:</b> (long.)	26.0	-	-
Normalized; > 16 <= 40 mm <b>Note:</b> (long.)	26.0	-	-
Normalized; > 40 <= 63 mm <b>Note:</b> (long.)	25.0	-	-
Normalized; > 63 <= 80 mm <b>Note:</b> (long.)	24.0	-	-
Normalized; > 80 <= 100 mm <b>Note:</b> (long.)	24.0	-	-

### Chemical Composition [%]

Criterion	Min	Max	Approx
C	-	0.1700	-
P	-	0.0500	-
S	-	0.0500	-
N	-	0.0090	-

- C C% = 0,20 ; 40 < d (mm) <= 100

## Cross Reference Table

Material	Standard	Country
S 235 JRG 2	AFNOR NF	France
CR 37/23	B.S.	United Kingdom
S 235 JRG 2	B.S.	United Kingdom
BSt 3 sp	BDS	Bulgaria
BSt 3 ps	BDS	Bulgaria
WSt 3 sp	BDS	Bulgaria
WSt 3 ps	BDS	Bulgaria
11375	CSN	Czech Republic
RSt 37-2 / S235JRG2	DIN	Germany
S235JRG2 / Fe 360 BFN	DIN	Germany
S 235 JR G2	EN	European Union
Fe 360 BFN	EN	European Union
Fe 37-3 FU	EN	European Union
1.0122	EN	European Union
1.0038	EN	European Union
Fe 37 B1 FU	EN	European Union
Fe 37 B1 FN	EN	European Union
Fe 37 B3 FN	EN	European Union
Fe 37 B3 FU	EN	European Union
Fe 37-3 FN	EN	European Union
Q235B-Z	GB	China
Q235B-F	GB	China
Q235B-b	GB	China
Q235B	GB	China
St3sp	GOST	Russia
St3ps	GOST	Russia
C 0361	JUS	Yugoslavia
Fe 235 B/FN	MSZ	Hungary
S 235 JRG 2	NBN	Belgium
S 235 JRG 2	NS	Norway
1312	SS	Sweden
OL 37.1	STAS	Romania
S 235 JRG 2	UNE	Spain
S 235 JRG 2	UNI	Italy
Fe 360 B	UNI	Italy
1.0038	WN	Germany