

Grades, Properties and Nearest Equivalents

EN 10025 : part 2 : 2004 Non-alloy structural steels

The tables below show the grades, properties and nearest equivalent grades from earlier standards.

Comparison between grades in EN 10025 : part 2 : 2004 and nearest equivalent versions in EN 10025 : 1993 and BS 4360 : 1990. The grade designations are explained on the previous page.

EN 10025 : PART 2 : 2004					EN 10025 : 1993	BS 4360 : 1990	Corresponding Former National Designations					
Grade	Yield (ReH) [MPa]	Tenalle [Rm]	Charpy V-notch longitudinal		Grade	Grade	Germany	France	Italy	Belgium	Spain	Sweden
	Strength at t = 16mm [MPa]		Temp [°C]	Energy [J] t = 16mm								
S185	185	290/510	-	-	S185	-	St33	A33	Fe320	A320	AE 310-0	13-00-00
- ¹	235	360/510	-	-	S235	40A	-	-	-	-	-	-
S235JR ²			20	27	S235JRG1/G2	40B	St 37-2	E24-2	Fe 360 B	AE 235-B	-	13 11-00
S235J0			0	27	S235J0	40C	St 37-3 U	E24-3	Fe 360 C	AE 235-C	AE 235-C	-
S235J2			-20	27	S235J2G3/G4	40D	-	E24-4	Fe 360 D	AE 235-D	AE 235-D	-
- ¹	275	410/560	-	-	S275	43A	-	-	-	-	-	-
S275JR ²			20	27	S275JR	43B	St 44-2	E28-2	Fe 430 B	AE 255-B	AE 275-B	14 12-00
S275J0			0	27	S275J0	43C	St 44-3 U	E28-3	Fe 430 C	AE 255-C	AE 275-C	-
S275J2			-20	27	S275J2G3/G4	43D	St 430 D1	E28-4	Fe 430 D	AE 255-C	AE 275-D	14 14-00
- ¹	355	470/630	-	-	S355	50A	-	-	-	-	-	-
S355JR			20	27	S355JR	50B	St 52-2	E36-2	Fe 510 B	AE 355-B	AE 355-B	-
S355J0			0	27	S355J0	50C	St 52-3 U	E36-3	Fe 510 C	AE 355-C	AE 355-C	-
S355J2			-20	27	S355K2G3/G4	50D	St 52-3 N	-	Fe 510 D	AE 355-D	AE 355-D	-
S355K2			-20	40	S355K2G3/G4	50DD	-	E36-4	-	-	AE 355-DD	-
E295	295	470/610	-	-	E295	-	St 50-2	A50-2	Fe 480	A 490-2	A 490	15 50-00/01
S335	335	570/710	-	-	S335	-	St 60-2	A60-2	Fe 580	A590-2	A 590	16 50-00/01
E360	360	850/830	-	-	E360	-	St 70-2	A70-2	Fe 650	A690-2	A 690	16 55-00/01