

UNI EN 10025

CHEMICAL COMPOSITION

Quality ¹	C % max.	Si % max.	Mn % max.	P % max.	S % max.	N % max.	Cu % max.
S235JR	0,17	-	1,40	0,035	0,035	0,012	0.55
S235J0	0,17	-	1,40	0,030	0,030	0,012	0.55
S235J2	0,17	-	1,40	0,025	0,025	-	0.55
S275JR	0,21	-	1,50	0,035	0,035	0,012	0.55
S275J0	0,21	-	1,50	0,030	0,030	0,012	0.55
S275J2	0,21	-	1,50	0,025	0,025	-	0.55
S355JR	0,24	0,55	1,60	0,035	0,035	0,012	0.55
S355J0	0,20	0,55	1,60	0,030	0,030	0,012	0.55
S355J2	0,20	0,55	1,60	0,025	0,025	-	0.55

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MECHANICAL CHARACTERISTICS

Quality ¹	Numerical Design EN 10027-2	Deoxidation method (a)	ReH Mpa Thickness ≤ 16 mm.	Rm Mpa Thickness (mm)		Minimum elongation % after fracture (b)					Resilience KV	
						L0 = 80 mm Nominal thickness mm.				L0=5.65√So Nominal thickness mm.	Temp.	min.
						< 3,00	≥3 ≤100	> 1 ≤1,5	> 1,5 ≤ 2			
S235JR	1.0038	FN	235	360 ÷ 510	360 ÷ 510	16	17	18	19	24	20	27
S235J0	1.0114	FN	235	360 ÷ 510	360 ÷ 510	16	17	18	19	24	0	27
S235J2	1.0117	FF	235	360 ÷ 510	360 ÷ 510	16	17	18	19	24	-20	27
S275JR	1.0044	FN	275	430 ÷ 580	410 ÷ 560	14	15	16	17	21	20	27
S275J0	1.0143	FN	275	430 ÷ 580	410 ÷ 560	14	15	16	17	21	-20	27
S275J2	1.0145	FF	275	430 ÷ 580	410 ÷ 560	14	15	16	17	21	0	27
S355JR	1.0045	FN	355	510 ÷ 680	470 ÷ 630	13	14	15	16	20	20	27
S355J0	1.0553	FN	355	510 ÷ 680	470 ÷ 630	13	14	15	16	20	0	27
S355J2	1.0577	FF	355	510 ÷ 680	470 ÷ 630	13	14	15	16	20	-20	27

NOTES: 1 MPa = 1 N/ mm²

a) FN = rimmed steels not permitted; FF = fully calmed steel

b) CROSS-SECTIONAL TEST PIECE