



CHEMICAL COMPOSITION

Standard	Grade	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Al	N
DIN 1630	St. 37.4	0.09-0.15	0.35-0.65	0.17-0.35	≤0.04	≤0.04						≥0.020	
DIN 1630	St. 44.0	0.15-0.2	0.40-0.65	0.17-0.35	≤0.05	≤0.04						≥0.020	
DIN 1630	St. 52.4	0.17-0.22	1.30-1.60	0.35-0.55	≤0.035	≤0.04						≥0.020	
DIN 17 121	St. 37-2	≤0.17			≤0.05	≤0.05							0.009
DIN 17 121	St. 44-2	≤0.21			≤0.05	≤0.05							0.009
DIN 17 121	St. 37-3	≤0.17			≤0.04	≤0.04						≥0.020	
DIN 17 121	St. 44-3	≤0.20			≤0.04	≤0.04						≥0.020	
DIN 17 121	St. 52-3	≤0.22	≤1.60	≤0.55	≤0.04	≤0.04						≥0.020	
EN 10210-1	S235JRH	≤0.17	≤1.40		≤0.04	≤0.04							≤0.009
EN 10210-1	S275J0H	≤0.20	≤1.50		≤0.035	≤0.035							≤0.009
EN 10210-1	S275J2H	≤0.20	≤1.50		≤0.03	≤0.03						≥0.020	
EN 10210-1	S355J0H	≤0.22	≤1.60	≤0.55	≤0.035	≤0.035							≤0.009
EN 10210-1	S355J2H	≤0.22	≤1.60	≤0.55	≤0.03	≤0.03						≥0.020	
EN 10210-1	S355K2H	≤0.22	≤1.60	≤0.55	≤0.03	≤0.03	0.3	0.3	0.3				

MECHANICAL PROPERTIES

Standard	Grade	Heat Treatment	Min. (Mpa)			Rm (MPa)	A5 Min. (%)	KV (J)	Temperature of application (°C)
			t 0-16 mm	1 16-40 mm	t 40-65 mm				
DIN 1630	St. 37.4	U,N	235	225	215	350-480	25	T=27 (0°C), L=43(0°C)	300
DIN 1630	St. 44.0	U,N	275	265	225	420-550	21	T=27 (0°C), L=44(0°C)	300
DIN 1630	St. 52.4	U,N	335	345	335	500-650	21	T=27 (0°C), L=45(0°C)	300
DIN 17 121	St. 37-2	U,N	235	225	215	340-470	26	KV=27	300
DIN 17 121	St. 44-2	U,N	235	225	215	340-470	26	KV=27 (-20°C)	300
DIN 17 121	St. 37-3	U,N	275	265	255	410-540	22	KV=27	300
DIN 17 121	St. 44-3	U,N	275	265	255	410-540	22	KV=27 (-20°C)	300
DIN 17 121	St. 52-3	U,N	355	345	335	490-630	22	KV=27 (-20°C)	300
EN 10210-1	S235JRH	U,N	235	225	215	360-510	26	L=27	20
EN 10210-1	S275J0H	U,N	275	265	225	410-560	23	L=27(0°C)	20
EN 10210-1	S275J2H	U,N	275	265	225	410-560	23	L=27(-20°C)	300
EN 10210-1	S355J0H	U,N	335	345	335	470-630	22	L=27(0°C)	20
EN 10210-1	S355J2H	U,N	335	345	335	470-630	22	L=27(-20°C)	300

