

Kimyasal özellikleri

Standart	Kalite	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Al	N	Nb,Ti,B,As ve W
DIN 1629	St 37.0	≤ 0.17			≤0.040	≤0.040							≤0.009	
DIN 1629	St 44.0	≤ 0.21			≤0.040	≤0.040							≤0.009	
DIN 1629	St 52.0	≤ 0.22	≤ 1.60	≤ 0.55	≤0.040	≤0.035						≤ 0.02		
EN 10216-1	P195TR1	≤ 0.13	≤ 0.70	≤ 1.35	≤0.025	≤ 0.02	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.08	≤ 0.02			
EN 10216-1	P195TR2	≤ 0.13	≤ 0.70	≤ 1.35	≤0.025	≤ 0.02	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.08	≤ 0.02	≤ 0.02		
EN 10216-1	P235TR1	≤ 0.16	≤ 1.20	≤ 0.35	≤0.025	≤ 0.02	≤ 0.30	≤ 0.30	≤ 0.30	≤ 0.08	≤ 0.02			≤Nb=0.010.Ti=0.04 Cr+Cu+Mo+Ni ≤0.7
EN 10216-1	P235TR2	≤ 0.16	≤ 1.20	≤ 0.35	≤0.025	≤ 0.02	≤ 0.30	≤ 0.30	≤ 0.30	≤ 0.08	≤ 0.02	≤ 0.02		≤Nb=0.010.Ti=0.04 Cr+Cu+Mo+Ni ≤0.7
EN 10216-1	P265TR1	≤ 0.20	≤ 1.40	≤ 0.40	≤0.025	≤ 0.02	≤ 0.30	≤ 0.30	≤ 0.30	≤ 0.08	≤ 0.02			≤Nb=0.010.Ti=0.04 Cr+Cu+Mo+Ni ≤ 0.7
EN 10216-1	P265TR2	≤ 0.20	≤ 1.40	≤ 0.40	≤0.025	≤ 0.02	≤ 0.30	≤ 0.30	≤ 0.30	≤ 0.08	≤ 0.02	≤ 0.02		≤Nb=0.010.Ti=0.04 Cr+Cu+Mo+Ni ≤0.7
EN 10216-3	P355N	≤ 0.20	0.90-1.70	≤ 0.50	≤0.025	≤ 0.02	≤ 0.03	≤ 0.5	≤ 0.3	≤ 0.08	≤ 0.1	≤ 0.02	≤ 0.02	Nb+Ti+V ≤ 0.12

mekanik özellikler

Standard	Grade	Heat Treatment	Pour Point Re min. (Mpa)			Tensile Strength Rm (MPa)	Elongation A5 min. (%)	Impact(J)	Application Temperature(°C)
			t 0-16 mm	1 16-40 mm	t 40-65 mm				
DIN 1629	St 37.0	U,N	235	225	215	350-480	25		300
DIN 1629	St 44.0	U,N	275	265	225	420-550	21		300
DIN 1629	St 52.0	U,N	335	345	335	500-650	21		300
EN 10216-1	P195TR1	U,N	195	185	175				
EN 10216-1	P195TR2	U,N	195	185	175	320-440	27		
EN 10216-1	P235TR1	U,N	335	225	215	360-500	23		
EN 10216-1	P235TR2	U,N	335	225	215	360-500	23	KV=27 (0°C)	
EN 10216-1	P265TR1	U,N	365	255	245	410-570	19		
EN 10216-1	P265TR2	U,N	365	255	245	410-570	19	KV=27 (0°C)	
EN 10216-3	P355N	U	355	345	335	490-650	22	KV=27 (-20°C)	