

## Kimyasal Özellikler

Standart Standard	Kalite Quality	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	Al	N	Nb,Ti,B,As ve W
DIN1629	St. 37.0	≤0.17			≤0.40	≤0.40							0.09	
DIN 1629	St. 44.0	≤0.21			≤0.40	≤0.40							0.09	
DIN 1629	St. 52.0	≤0.22	≤1.60	≤0.55	≤0.40	≤0.35						≥0.02		
EN 10216-1	P195TR1	≤0.13	≤0.70	≤1.35	≤0.25	≤0.02	≤0.3	≤0.3	≤0.3	≤0.08	≤0.02			
EN 10216-1	P195TR2	≤0.13	≤0.70	≤1.35	≤0.25	≤0.02	≤0.3	≤0.3	≤0.3	≤0.08	≤0.02	≤0.02		
EN 10216-1	P235TR1	≤0.16	≤1.20	≤0.35	≤0.25	≤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	≤0.25	≤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	≤0.25	≤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	≤0.25	≤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	≤0.25	≤0.02	≤0.03	≤0.5	≤0.3	≤0.08	≤0.1	≥0.02	≤0.02	Nb+Ti+V ≤0.02

## Mekanik Özellikler

Standart	Kalite	Isıl İşlem	Akma Noktası Re Min. (MPa)			Kopma Dayanımı Rm (MPa)	Uzama A5 Min. (%)	Darbe Enerjisi (J)	Uygulama Sıcaklığı (°C)
			t 0-16 mm	1 16-40 mm	t 40-65 mm				
DIN1629	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,N	355	345	335 325	490-650	22	KV=27 (-20°C)	

