

	型号	化学性能							物理性能			
		C	Si	Mn	P	S	Cr	Ni	抗拉强度	屈服强度	伸长率	HB
碳素结构钢	10#	0.07-0.13	0.17-0.37	0.35-0.65	≤0.035	≤0.035	≤0.15	≤0.025	≥335	≥205	≥31%	≤137
	15#	0.12-0.19	0.17-0.37	0.35-0.65	≤0.035	≤0.035	≤0.15	≤0.025	≥375	≥225	≥27%	≤143
	20#	0.17-0.24	0.17-0.37	0.35-0.65	≤0.035	≤0.035	≤0.25	≤0.025	≥410	≥245	≥25%	≤156
	25#	0.22-0.30	0.17-0.37	0.50-0.8	≤0.035	≤0.035	≤0.25	≤0.025	≥450	≥275	≥23%	≤170
	30#	0.27-0.35	0.17-0.37	0.50-0.80	≤0.035	≤0.035	≤0.25	≤0.025	≥490	≥295	≥21%	≤179
	35#	0.32-0.40	0.17-0.37	0.50-0.80	≤0.035	≤0.035	≤0.25	≤0.025	≥530	≥315	≥20%	≤197
	40#	0.37-0.45	0.17-0.37	0.50-0.80	≤0.035	≤0.035	≤0.25	≤0.025	≥570	≥335	≥19%	≤217
	45#	0.42-0.50	0.17-0.37	0.50-0.80	≤0.035	≤0.035	≤0.25	≤0.025	≥600	≥355	≥16%	≤229
	50#	0.47-0.55	0.17-0.37	0.50-0.80	≤0.035	≤0.035			≥630	≥375	≥14%	≤241
	55#	0.52-0.60	0.17-0.37	0.50-0.80	≤0.035	≤0.035			≥645	≥380	≥13%	≤255
碳素结构钢	15Mn	0.12-0.19	0.17-0.37	0.70-1.00	≤0.035	≤0.035			≥410	≥245	≥26%	≤163
	20Mn	0.17-0.24	0.17-0.37	0.70-1.00	≤0.035	≤0.035			≥450	≥275	≥24%	≤197
	25Mn	0.22-0.30	0.17-0.37	0.70-1.00	≤0.035	≤0.035			≥490	≥295	≥22%	≤207
	30Mn	0.27-0.35	0.17-0.37	0.70-1.00	≤0.035	≤0.035			≥540	≥315	≥20%	≤217
	35Mn	0.32-0.40	0.17-0.37	0.70-1.00	≤0.035	≤0.035			≥560	≥335	≥18%	≤229
	40Mn	0.37-0.45	0.17-0.37	0.70-1.00	≤0.035	≤0.035			≥590	≥355	≥17%	≤229
	45Mn	0.42-0.50	0.17-0.37	0.70-1.00	≤0.035	≤0.035			≥620	≥375	≥15%	≤241
	50Mn	0.47-0.55	0.17-0.37	0.70-1.00	≤0.035	≤0.035			≥645	≥390	≥13%	≤255
	60Mn	0.57-0.65	0.17-0.37	0.70-1.00	≤0.035	≤0.035			≥695	≥410	≥11%	≤269
	65Mn	0.62-0.70	0.17-0.37	0.70-1.00	≤0.035	≤0.035	Cr		≥735	≥430	≥9%	≤285
合金结构钢	40Cr	0.37-0.44	0.17-0.37	0.50-0.80	≤0.035	≤0.035	0.80-1.1		≥980	≥785	≥9%	≤207
	30Cr	0.27-0.34	0.17-0.37	0.50-0.80	≤0.035	≤0.035	0.80-1.1		≥885	≥685	≥11%	≤187
	20Cr	0.17-0.24	0.17-0.37	0.50-0.80	≤0.035	≤0.035	0.7-1.0		≥835	≥540	≥10	≤179
	15Cr	0.12-0.18	0.17-0.37	0.40-0.70	≤0.035	≤0.035	0.7-1.0		≥735	≥490	≥11%	≤179
	35CrMo								≥930	≥785	≥12%	≤229
	35CrMoV								≥1080	≥930	≥10%	≤241
碳素结构钢	Q195	0.06-0.12	≤0.30	0.25-0.50	≤0.045	≤0.05			315-430	≥195	≥33%	
	Q215A	0.09-0.15	≤0.30	0.25-0.55	≤0.045	≤0.05			335-450	≥215	≥31%	
	Q215B	0.09-0.15	≤0.30	0.25-0.55	≤0.045	≤0.045			335-450	≥215	≥31%	
	Q235A	0.14-0.22	≤0.30	0.30-0.65	≤0.045	≤0.05			375-500	≥235	≥26%	
	Q235B	0.12-0.20	≤0.30	0.30-0.70	≤0.045	≤0.045			375-500	≥235	≥26%	
	Q235C	≤0.18	≤0.30	0.35-0.80	≤0.040	≤0.040			375-500	≥235	≥26%	
	Q235D	≤0.17	≤0.30	0.35-0.80	≤0.035	≤0.035			375-500	≥235	≥26%	
	Q255A	0.18-0.28	≤0.30	0.40-0.70	≤0.045	≤0.050			410-550	≥255	≥24%	

	Q255B	0.18-0.28	≤0.30	0.40-0.70	≤0.045	≤0.045			410-550	≥255	≥24%		
	Q275	0.28-0.38	≤0.35	0.50-0.80	≤0.045	≤0.050			490-630	≥275	≥20%		
	T7	0.65-0.74	≤0.35	≤0.40	≤0.035	≤0.030						≤187	
	T8	0.75-0.84	≤0.35	≤0.40	≤0.035	≤0.030						≤187	
	T9	0.85-0.94	≤0.35	≤0.40	≤0.035	≤0.030						≤192	
	T10	0.95-1.04	≤0.35	≤0.40	≤0.035	≤0.030						≤197	
	T11	1.05-1.14	≤0.35	≤0.40	≤0.035	≤0.030						≤207	
	T12	1.15-1.24	≤0.35	≤0.40	≤0.035	≤0.030						≤207	
	T13	1.25-1.35	≤0.35	≤0.40	≤0.035	≤0.030						≤217	
冷成形用热连扎钢	SPHC	≤0.15	≤0.05	0.15-0.60	≤0.035	≤0.035			≥270M	-	≥27%		
	SPHD	≤0.10	≤0.05	0.15-0.50	≤0.035	≤0.035			≥270M	-	≥30%		
	SPHE	≤0.10	≤0.05	0.15-0.50	≤0.030	≤0.030			≥270M	-	≥31%		
冷成形用热连扎钢	StW22	≤0.10	≤0.05	0.15-0.60	≤0.035	≤0.035			≤440	170-360	≥25%		
	StW23	≤0.10	≤0.07	0.10-0.45	≤0.035	≤0.035			≤420	170-340	≥27%		
	StW24	≤0.08	≤0.07	0.10-0.40	≤0.035	≤0.030			≤400	170-330	≥30%		
结构热连扎	SS330	≤0.15	≤0.30	≤0.95	≤0.035	≤0.035			330-430	≥205	≥26		
	SS400	0.12-0.21	≤0.30	≤1.40	≤0.035	≤0.035			400-510	≥245	≥21		
	SS490	≤0.22	≤0.25	≤1.40	≤0.035	≤0.035			490-610	≥285	≥19		
	SS540	≤0.30	≤0.25	≤1.60	≤0.035	≤0.035			≥540	≥400	≥16%		
结构热连扎钢	St12	≤0.10	-	≤0.50	≤0.035	≤0.035	≤0.10	≤0.10	270-410	≤280	≥28%	≤65	HRB
	St13	≤0.08	-	≤0.45	≤0.030	≤0.035	≤0.10	≤0.10	270-430	≤240	≥34%	≤55	HRB
	St14	≤0.08	-	≤0.40	≤0.020	≤0.030	≤0.06	≤0.08	270-350	≤210	≥38%	≤50	HRB
	St15	≤0.06	≤0.03	≤0.35	≤0.020	≤0.020	≤0.06	≤0.08	250-330	≤195	≥40%		
	St35	≤0.18	0.15-0.35	0.35-0.65	≤0.035	≤0.035	≤0.25	≤0.25	345-460	≥235	≥25		
	St45	≤0.25	0.15-0.35	0.50-0.80	≤0.035	≤0.035	≤0.25	≤0.25	440-550	≥255	≥21		
	St52	≤0.20	≤0.55	≤1.50	≤0.035	≤0.035	≤0.25	≤0.25	490-630	≥355	≥22		
	St55	0.33-0.41	0.17-0.37	0.50-0.80	≤0.035	≤0.035	≤0.25	≤0.25	540-645	≥295	≥17		
	St37.0	≤0.17	0.17-0.37	0.35-0.65	≤0.035	≤0.035	≤0.25	≤0.25	350-480	≥235	≥25		
	St44.0	≤0.21	0.17-0.37	0.50-0.80	≤0.035	≤0.035	≤0.25	≤0.25	420-550	≥275	≥21		
	St52.0	≤0.22	≤0.55	≤1.60	≤0.035	≤0.035	≤0.25	≤0.25	500-650	≥355	≥21		
	CK45	0.42-0.50	0.17-0.37	0.50-0.80	≤0.035	≤0.035	≤0.25	≤0.25	590-730	≥335	≥14		
	St37-2	≤0.17	≤0.12	≤1.25	≤0.035	≤0.035			360-510	≥235	≥17		
	St37-3	≤0.20	≤0.12	≤1.3	≤0.035	≤0.035			360-510	≥235	≥17		
	St44-2	≤0.21	≤0.12	≤1.25	≤0.035	≤0.035			430-580	≥275	≥14		
	St50-2	≤0.30	≤0.35	≤0.95	≤0.035	≤0.035			490-660	≥295	≥12		
St52-3	≤0.20	≤0.55	≤1.60	≤0.035	≤0.035			510-680	≥335	≥14			

汽车结构用 热连扎钢	SAPH310	≤0.10	≤0.30	≤0.50	≤0.035	≤0.035			≥310	≥185	≥38	
	SAPH370	≤0.21	≤0.30	≤0.75	≤0.035	≤0.035			≥370	≥225	≥36	
	SAPH400	≤0.21	≤0.30	≤1.20	≤0.030	≤0.025			≥400	≥235	≥35	
	SAPH440	≤0.21	≤0.30	≤1.50	≤0.030	≤0.025			≥440	≥305	≥33	
	QStE340TM	≤0.21	≤0.35	≤1.30	≤0.030	≤0.025			420-540	≥340	≥21	
	QStE380TM	≤0.21	≤0.35	≤1.40	≤0.030	≤0.025			450-590	≥380	≥20	
	QStE420TM	≤0.12	≤0.50	≤1.50	≤0.030	≤0.025			480-620	≥420	≥18	
	QStE460TM	≤0.12	≤0.50	≤1.60	≤0.030	≤0.025			520-670	≥460	≥15	
	QStE500TM	≤0.12	≤0.50	≤1.70	≤0.030	≤0.025			550-700	≥500	≥13%	
汽车结构用 热连扎钢	B330CL	≤0.10	≤0.05	≤0.50	≤0.030	≤0.025	-		330-430	≥225	≥33%	
	B380CL	≤0.12	≤0.05	0.50~	≤0.030	≤0.025	-		380-480	≥220	≥25%	
	B420CL	≤0.12	≤0.30	0.80~	≤0.030	≤0.025	-		420-520	≥290	≥28%	
	B320L	≤0.10	≤0.05	≤0.50	≤0.030	≤0.035	-		320-420	≥215	≥27%	
	B420L	≤0.12	≤0.50	≤1.20	≤0.030	≤0.025	-		420-540	≥305	≥25	
	B510L	≤0.16	≤0.50	≤1.60	≤0.030	≤0.025	-		510-610	≥355	≥24%	
	B510DL	≤0.18	≤0.30	≤1.60	≤0.025	≤0.020	-		510-610	≥355	≥24%	
	B550L	≤0.16	≤0.50	≤1.60	≤0.030	≤0.025	-		550-650	≥400	≥23%	
	B440QZR	≤0.12	≤0.50	≤1.30	≤0.030	≤0.025	-		440-570	≥320	≥15	
B480QZR	≤0.16	≤0.50	≤1.50	≤0.030	≤0.035	-		480-550	≥355	≥21		
冷连扎碳素 钢	SPCC	≤0.12	-	≤0.50	≤0.035	≤0.025			≥270M	-	≥34%	
	SPCD	≤0.10	-	≤0.45	≤0.030	≤0.025			≥270M	-	≥36	
	SPCE	≤0.08	-	≤0.40	≤0.025	≤0.020			≥270M	≤210	≥38	
	SPCEN	≤0.08	-	≤0.40	≤0.025	≤0.020			≥270M	≤210	≥38	
冲压用冷连 扎钢板	BLC	≤0.10	-	≤0.50	≤0.035	≤0.025			≥270M	140-270	≥36	
	BLD	≤0.08	-	≤0.45	≤0.030	≤0.025			≥270M	120-240	≥38	
	BUSD	≤0.010	-	≤0.40	≤0.025	≤0.020			≥260	120-210	≥40%	
	BUFD	≤0.008	-	≤0.30	≤0.020	≤0.020			≥250	120-190	≥42	
	BSUFD	≤0.006	-	≤0.30	≤0.020	≤0.020			≥250	110-180	≥44	
	ZG200-400	≤0.2	≤0.5	≤0.8	≤0.04	≤0.04	≤0.035	≤0.030	≥400	≥200	≥25	
	ZG230-450	≤0.3	≤0.5	≤0.9	≤0.04	≤0.04	≤0.035	≤0.030	≥450	≥230	≥22	
	ZG270-500	≤0.4	≤0.5	≤0.9	≤0.04	≤0.04	≤0.035	≤0.030	≥500	≥270	≥18	
	ZG310-570	≤0.5	≤0.6	≤0.9	≤0.04	≤0.04	≤0.035	≤0.030	≥570	≥310	≥15	
	ZG340-640	≤0.6	≤0.6	≤0.9	≤0.04	≤0.04	≤0.035	≤0.030	≥640	≥340	≥10	
	HT150	3.2-3.6	1.8-2.6	0.50-1.00	≤0.10	≤0.10			≥150	-	-	
	HT200	2.9-3.3	1.6-2.4	0.60-1.40	≤0.10	≤0.10			≥200	-	-	
	HT250	2.8-3.2	1.60-2.20	0.70-1.40	≤0.10	≤0.10			≥250	-	-	

	HT300	2.8-3.1	1.60-2.00	0.80-1.40	≤0.10	≤0.10			≥300	-	-	

本表由:常州精密钢管博客 <http://www.josen.net> 友情提供.