



Carbon and low alloy steel

Common carbon structural steel also be called Mild steel. This kind of steel has very wide use. Because of the low Carbon content and without alloy element, carbon structural steel has the proper tensile strength, good toughness, plasticity, processing property. Carbon structural steel usually be rolled into steel plates, shaped steel and profile steel, which usually used to build workshop, bridge, vessels and so on. The delivery station usually are hot rolled, control rolled, or Normalized.

Low alloy high strength steel also can be called common low alloy steel, low alloy structural steel. Low alloy structural steel's total alloy content usually is not more than 3%. Except for Si and Mn, there is V, Ti, Nb, Al, Cr, Ni, Re, N and so on.

The main steel grades in Carbon and low alloy steel are like :

EN10025(93): S185, S235JR, S235J0, S235J2, S235J2G3, S235J2G4, S355JR, S355J0, S355J2, S355J2G3, S355J2G4, S355K2G3, S355K2G4, S275JR, S275J0, S275J2, S275J2G3, S275J2G4.

EN10025(90): Fe310-0, Fe E360B, Fe E360C, Fe E360D1, Fe E360D2, Fe430B, Fe430C, Fe430D1, Fe430D2, Fe510B, Fe510C, Fe510D1, Fe510D2, Fe510 D D1, Fe510 D D2.

EN10113-2: S275N, S275NL, S355N, S355NL

DIN17100: St33, St37-2, St37-3U, St37-3N, St44-2, St44-3U, St44-3N, St52-3, St52-3N.

NFA35-501: A33, E24-2, E24-3, E24-4, E28-2, E28-3, E28-4, E36-2, E36-3, E36-4.

UNI7070: Fe 320, Fe 360 B, Fe 360 C, Fe 360 D, Fe430B, Fe430C, Fe430D, Fe 510 B, Fe 510 C, Fe 510 D, Fe 510 D D

NBN21-101: A 320, AE235B, AE235C, AE235D, AE 255 A/B/C/D, AE295 B, AE295 C, AE295 D, AE295 DD, AE 355 B, AE 355 C, AE 355 D, AE 355 DD.

MNC810E: SS13,00,00 SS 13.11.00 SS 13,12,00 SS14,12,00 SS14,14,00 SS14,14,01 SS26,32,00 SS26,34,11 SS21,72,00 SS21,74,01 SS21,32,01 SS21,34,01 SS 21,35,01 SS 26,42,00 SS26,44,11

BS4360: 40(A)B/C/D/EE. 43(A)B/C/D/EE 50B/C/D/DD/EE

CSAG40-21: 230 G, 260W, WT 300W, WT 350W, WT

IS: IS226, Fe410-s, IS2062, Fe410 WA, Fe410 WB, Fe410 WC, IS 961, Fe 570 HT, Fe 540 WHT.

JIS3101: SS330, SS400, SS490

JIS3106: SM400A/B/C, SM490A/B/C, SM490YA/B, SM520B/C

ASTM: A283GrA/B/C/D, A284GrC/D, A36, A529Gr42/50, A572Gr42/50, A573Gr58/65/70, A633GrA/C/D, A656Gr50, A709Gr36/50/50w/A808.

ISO630: FE 310, FE 360B/C/D, FE 430B/C/D, FE 510B/C/D, A656

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Europe			Germany	France	Italy	Belgium	U.K.	Canada	India	Japan	International	USA	
EN10025 (93)	EN1002 5 (90)	EN10 113-2	DIN 17100	NFA 35-501	UNI70 70	NBN21-1 01	BS4360	CSAG40 -21	IS	JIS3 101	JIS 3106	ISO 630	ASTM
S185	Fe 310- 0		St 33	A 33	Fe 320	A 320				SS 330		FE 310	
S235JR(G 2)	Fe E36 0B(F N)		RSt 37-2	E24-2	Fe 360 B	AE235B	40(A)B	230 G	IS226	SS40 0	SM 400A	Fe 360 B	ASTM A 360 C
S235 J0	Fe E 360 C		St37-3U	E 24-3	Fe 360 C	AE235 C	40C		Fe 410-S		SM400B	Fe 360 C	
S235J2 G3	Fe E 360 D1		St 37-3 N	E24-4	Fe 360 D	AE 235 D	40D			SM400C		Fe 360 D	
S235J2 G4	FeE36 0 D2						40 EE						
						AE255A, B,C,D							

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S275 JR	Fe430 B		ST 44-2	E 28-2	Fe430B	AE295 B	43(A)B	260 W,W T	IS2062			Fe 430B	A529GR 42,50
S 275 JO	Fe 430 C		St44-3U	E 28-3	Fe 430 C	AE 295C	43 C		Fe410 WA			Fe 430C	
S275 J2G3	Fe430 D1	S 275N	St 44-3N	E 28-4	Fe 430D	AE 295 D	43 D		Fe 410 WB			Fe 430D	
S275 J2G4	Fe430 D2	S 275N L				AE 295 DD	43EE		Fe 410 WC				
								300 W.W T					
S 355 JR	Fe510 B			E 36-2	Fe 510 B	AE 355 B	50 B	350 W, WT	IS 961	SS490	SM 490A	FE 510 B	A572gr,42 ,50
S 355 JO	Fe 510 C		St 52-3 U	E 36-3	Fe 510C	AE 335 C	50 C		Fe 570 HT		SS490B	Fe 510 C	
Fe 510 D1													
S 335J2 G4	Fe 510 D2	S 355 NL										SS 490 YA	A 656
S 335K2 G3	Fe 510 D D1			E 36 -4	Fe 510 DD	AE355DD	50 DD					SS490 YB	
S 335K2 G4	Fe 510 D D2						50 EE					SM 520 B	

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