

Carbon structural and high strength 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

The main grade of common carbon structural steel are :

EN10025(93):S185,S235JR,S235J0,S235J2,S235J2G3,S235J2G4,
EN10025(90): Fe310-0,Fe E360B,Fe E360C,Fe E360D1,Fe E360D2,
DIN17100: St33,St37-2,St37-3U,St37-3N
ASTM:A283GrA/B/C/D,A284GrC/D,A36,
JIS3101:SS330,SS400,SS490
JIS3106:SM400A/B/C

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):S355JR,S355J0,S355J2,S355J2G3,S355J2G4,S355K2G3,S355K2G4,S275JR,S275J0,S275J2,S275J2G3,
S275J2G4.

Bebon steel — The most professional exporter on weathering resistant steel

Tel:0086-371-86151527

E-mail:bb@bebonchina.com

Fax: 0086-371-86011881

MSN:bebonchina@hotmail.com

Skype: bebonchina

Web:<http://www.shipbuilding-steel.com>

<http://www.bebonchina.com>

Oficina Dir: 2801 B# International enterprise center Zhengzhou city in China.

EN10025(90): Fe430B,Fe430C,

Fe430D1,Fe430D2,Fe510B,Fe510C,Fe510D1,Fe510D2,Fe510 D D1,Fe510 D D2.

EN10113-2: S275N,S275NL,S355N,S355NL

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

JIS3101:SS330,SS400,SS490

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

ASTM: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

Europe			Germany	Canada	India	Japan		International	USA
EN10025 (93)	EN10025 (90)	EN10113- 2	DIN 17100	CSAG40- 21	IS	JIS3101	JIS 3106	ISO 630	ASTM
S185	Fe 310-0		St 33			SS 330			
								FE 310	
S235JR(G2)	Fe E360B(FN)		RSt 37-2	230 G	IS226	SS400	SM 400A	Fe 360 B	A 36/A283C
S235 J0	Fe E 360 C		St37-3U		Fe 410-S		SM400B	Fe 360C	
S235J2G3	Fe E 360 D1		St 37-3 N				SM400C	Fe 360 D	
S235J2G4	FeE360 D2								
S275 JR	Fe430 B		ST 44-2	260W,WT	IS2062			Fe 430B	A529GR 42,50
S 275 JO	Fe 430 C		St44-3U		Fe410			Fe 430C	

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					WA				
S275 J2G3	Fe430 D1	S 275N	St 44-3N		Fe 410				
					WB			Fe 430D	
S275 J2G4	Fe430 D2	S 275NL			Fe 410				
					WC				
				300W.WT					
S 355 JR	Fe510 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		Fe 570				
					HT		SS490B	Fe 510 C	
Fe 510 D1									
S 335J2G4	Fe 510 D2	S 335 NL					SS 490 YA	A 656	
S 335K2G3	Fe 510 D D1						SS490 YB		
S 335K2G4	Fe 510 D D2						SM 520 B		
							SM 520 C		

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