

Fine-grain structural steels

The fine-grain structural steel grades are characterised by a minimum yield strength of 275 - 460 MPa, by good weldability and high resistance to brittle cracking. [Fine-grain structural steels](#) are used above all for manufacturing vessels for pressurised gas (LPG, butane and propane tanks), pressure vessels, steam boiler parts, pressure piping, compressors etc.

Main grades of [Fine-grain structural steels](#) are :

Material #: 1.8818, 1.8819, 1.8823, 1.8834, 1.8825, 1.8836, 1.8827, 1.8838.

EN 10113-3: S275M, [S275ML](#), S355M, S355ML, S420M, S420ML, S460M, S460ML.

SEW 083: StE 275 TM, TStE 275 TM, StE 355 TM, TStE 355 TM, StE 420 TM, TStE 420 TM, StE 460 TM, TStE 460 TM.

NFA 36-201: E 355 R, E 355 FP, E 420 R, E 420 FP, E 460 R, E 460 FP.

UNI 7382: Fe E 275 KGTM, Fe E 275 KTTM, Fe E 355 KGTM, Fe E 355 KTTM, Fe E 460 KGTM, Fe E 460 KTTM.

BS 4360: 50 EE, 55 EE.

ASTM: A 572 Gr. C, A 633 Gr. C, A 572 Gr. 60, A 633 Gr. E, A 572 Gr. 65

Material # : 1.049, 1.0491, 1.0545, 1.0546, 1.8902, 1.8912

EN 10111: S275N, S275NL, S355N, S355NL, S420N, S420NL,

DIN 1614/2: StE 285, TStE 285, StE 3555, TStE 355, StE 420, TStE 420,

NFA 36-301: E 355 R, E 355 FP, E 420 R, E 420 FP

UNI 5867: Fe E 275 KGN, Fe E 275 KTN, Fe E 355 KGN, Fe E 355 KTN, Fe E 420 KGN.

BS 1449 : 43 EE, 50 E, 50 EE, 50 F

UNE 36.093 : AE 355 KG , AE 355 KT, AE 420 KG

ASTM : A 572 Gr. 42, A 633 Gr. A, A 572 Gr. 50 A 633 Gr. C/D , A 537 Cl. 1 A 255 Gr. D A 633 Gr. E / A

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.

572 Gr. 60 / A 738 Gr. C

JIS G3131: SM490A

Material #	EN 10111	DIN 1614/2	NFA 36-301	UNI 5867	BS 1449	ASTM - SAE
1.049	S275N	StE 285		Fe E 275 KGN		A 572 Gr. 42
1.0491	S275NL	TStE 285		Fe E 275 KTN	43 EE	A 633 Gr. A
1.0545	S355N	StE 355	E 355 R	Fe E 355 KGN	50 E	A 572 Gr. 50
1.0546	S355NL	TStE 355	E 355 FP	Fe E 355 KTN	50 EE	A 633 Gr. C, D / A 537 Cl. 1
1.8902	S420N	StE 420	E 420 R	Fe E 420 KGN		A 255 Gr. D
1.8912	S420NL	TStE 420	E 420 FP		50 F	A 633 Gr. E / A 572 Gr. 60 / A 738 Gr. C
Material #	EN 10113-3	SEW 083	NFA 36-201	UNI 7382	BS 4360	ASTM
1.8818	S275M	StE 275 TM		Fe E 275 KGTM		
1.8819	S275ML	TStE 275 TM		Fe E 275 KTTM		
1.8823	S355M	StE 355 TM	E 355 R	Fe E 355 KGTM		A 572 Gr. C
1.8834	S355ML	TStE 355 TM	E 355 FP	Fe E 355 KTTM	50 EE	A 633 Gr. C
1.8825	S420M	StE 420 TM	E 420 R			A 572 Gr. 60
1.8836	S420ML	TStE 420 TM	E 420 FP			A 633 Gr. E
1.8827	S460M	StE 460 TM	E 460 R	Fe E 460 KGTM		A 572 Gr. 65
1.8838	S460ML	TStE 460 TM	E 460 FP	Fe E 460 KGTM	55 EE	A 572 Gr. 65

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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.