

Fine-grain structural steels

These 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 355, 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 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	SEW 083	NFA	UNI 7382	BS	ASTM

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	10113-3		36-201		4360	
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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