



**Weldable normalized fine grained pressure vessel steels**

Weldable normalized fine grained pressure vessel steels are characterised by a minimum yield strength of 275 - 460 MPa, by good weldability and high resistance to brittle cracking. Weldable normalized fine grained pressure vessel 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. The following special grades are available for extraordinary applications:

P...NL1 and P...NL2 or P...ML1 and P...ML2 for application temperatures below -20 °C;

P...NH for operating temperatures of up to 400 °C.

The user of these Weldable normalized fine grained pressure vessel steels must make sure that his calculation, design and processing methods are appropriate for the material. The welding technique used must be suitable for the intended application .

The main grade of Weldable normalized fine grained pressure vessel steels are :

Material #: 1.0486, 1.0487, 1.0488, 1.1104, 1.0562, 1.0565, 1.0566, 1.1106.

EN 10028-3: P275N,P275NH , P275NL1, P275NL2, P355N, P355NH, P355NL1, P355NL2.

DIN 17102: StE 285, WStE 285, TStE 285, EStE 285, StE 355, WStE 355, TStE 355, EStE 355.

NFA 36-207 : A 510 AP, A 510 AP, A 510 FP 1.

UNI 7382 : Fe E 355 KG, Fe E 355-2, Fe E 355-3.

BS 1501: 224 Gr. 400, 224 Gr. 430, 223 Gr. 490, 224 Gr. 490, 225Gr. 490

UNE 36081: AE 355 KG

ASTM: A 516 Gr. 60, A 662 Gr. A, A 537 CL 1, A 662 Gr. C, A 737 Gr. B

Material #	EN	DIN 17102	NFA	UNI 7382	BS 1501	UNE	ASTM
1.0486	P275N	StE 285			224 Gr. 400		
1.0487	P275NH	WStE 285			224 Gr. 430		A 516 Gr. 60
1.0488	P275NL1	TStE 285					A 662 Gr. A
1.1104	P275NL2	EStE 285					
1.0562	P355N	StE 355	A 510 AP	Fe E 355 KG	223 Gr. 490	AE 355 KG	A 537 CL 1
1.0565	P355NH	WStE 355	A 510 AP	Fe E 355-2	224 Gr. 490		A 662 Gr. C
1.0566	P355NL1	TStE 355	A 510 FP 1	Fe E 355-3	224 Gr. 490		A 737 Gr. B
1.1106	P355NL2	EStE 355					

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