

Annex D (informative)

Additional materials

Table D.1 lists, in addition to Table 9, materials which are widely in use, but which are not listed in EN standards. These materials do not have any presumption of conformity if used in pressure equipment under jurisdiction of

Directive 97/23/EC (Pressure Equipment Directive). These materials may be used in pressure equipment according to article 3.3 of the PED (sound engineering practice) or in applications that are not covered by the PED. If they are used in pressure equipment according to categories I to IV according to the PED, they shall have either a

- European Approval of Material (EAM), or
- be covered by a Particular Material Appraisal (PMA).

PMA shall be made by the pressure equipment manufacturer and in categories III and IV it shall have appraisal of the notified body that is responsible for the conformity assessment of the equipment. In the PMA it shall be proved, that the material fulfils the essential safety requirements of the PED.

Table D.1 — Additional materials

Material group ^b	Specification, grade, symbol and material number ^a					
	Castings ^c / seamless tubes ^c / welded pipes ^{c, d}		Forgings ^{c, e}		Flat steel products ^{c, e}	
	Standard	Grade/symbol/ material num- ber	Standard	Grade/symbol/ material number	Standard	Grade/symbol/ material num- ber
1E0	DIN 1681	GS-38	VdTÜV 399/3 ^f	C 21/1.0432	VdTÜV 399/1 ^f	C 21/1.0432
1E1	-	-	EN 10025-2 ^h	S235JR/1.0038	EN 10025-2	S235JR/1.0038
3E0	-	-	VdTÜV 350/3 ^f	C 22.8/1.0460	VdTÜV 350/1 ^f	C 22.8/1.0460
			EN 10222-2	P 250 GH/1.0460	-	-
7E0	-	-	DIN 17103 ^g	TSTE 285/1.0488	DIN 17102 ^g	TSTE 285/1.0488
7E1	DIN 17245	GS-10 Ni 19	DIN 17103 ^g	TSTE 355/1.0566	DIN 17102 ^g	TSTE 355/1.0566
-	-	-	DIN 17103 ^g	TSTE 420/1.8912	DIN 17102 ^g	TSTE 420/1.8912
1E0	ASME SA 106	B	-	-	-	-
3E0	-	-	ASME SA 105	-	-	-
3E1	ASME SA 216	WCB	-	-	ASME SA 515	70
	ASME SA 216	WCC			ASME SA 516	70
	ASME SA 333	6			ASME SA 537	CL 1
4E0	ASME SA 217	WC 1	ASME SA 182	F1	ASME SA 204	A
					ASME SA 204	B
5E0	ASME SA 217	WC 6	ASME SA 182	F11 Cl 1, 2 and Cl 3	ASME SA 387	11
	ASME SA 217	C 5				
	ASME SA 335	P 12		F12 Cl 1 and 2		12
6E0	ASME SA 217	C 12	ASME SA 182	F 5	ASME SA 387	5
	ASME SA 335	P 5 and P9		F 9		9
	ASME SA 335	P 22		F 22 Cl 1 and 3		22