Boiler & Pressure Vessel

Comparison & Equivalents

Equivalent Specifications & Standards				Mechanical Values Tensile	Yield / min			
BS	EN	ASTM / ASME	DIN	N/mm²	N/mm²	C (%)	Si (%)	Mn (%)
161-360A/B	P235GH	A 285 GR C	H I	360 / 480	235	0.16	0.35	0.40/1.20
161-430A/B	P265GH	A 516 - 60	H II	410 / 530	265	0.20	0.40	0.50/1.40
224-400A/B	P275N/NH			390 / 510	275	0.18	0.40	0.50/1.40
224-460A/B	P295GH	A 516 - 65	17 MN 4	460 / 580	295	0.08/0.20	0.40	0.90/1.50
224-490A/B	P355GH	A 516 - 70		510 / 650	355	0.10/0.22	0.60	1.00/1.70
225-490A/B	P355N/NH		19 MN 6	490 / 630	355	0.20	0.50	0.90/1.70
243	16 MO3	A 204 GR A	15 MO 3	440 / 590	275	0.12/0.20	0.35	0.40/0.90
620 B	13CRMO45	A 387-12-2	13CRMO44	450 / 600	300	0.08/0.18	0.35	0.40/1.00
621 B		A387-11-2		515 / 690	340	0.09/0.17	0.50/0.80	0.40/0.65
622-515B	10/11CRMO910	A387-22-2	10CRMO910	520 / 630	310	0.08/0.14	0.50	0.40/0.80

Comparison & Equivalents

Chemical Composition Maximum (unless stated), %

P	S	Al	Cr	Cu	Ni	Mo	Nb	Ti	V
0.030	0.025	0.020	0.30	0.30	0.30	0.08	0.01	0.03	0.02
0.030	0.025	0.020	0.30	0.30	0.30	0.08	0.01	0.03	0.02
0.030	0.025	0.020	0.30	0.30	0.50	0.08	0.05	0.03	0.05
0.030	0.025	0.020	0.30	0.30	0.30	0.08	0.01	0.03	0.02
0.030	0.025	0.020	0.30	0.30	0.30	0.08	0.01	0.03	0.02
0.030	0.025	0.020	0.30	0.30	0.50	0.08	0.05	0.03	0.10
0.030	0.025	0.30	0.30	0.30	0.25/0.35				
0.030	0.025		0.70/1.15	0.30		0.40/0.60			
0.025	0.015	0.020	1.00/1.50	0.30	0.30	0.45/0.60			
0.030	0.025		2.00/2.50	0.30		0.90/1.10			

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