

DIN17102 WStE255 steel plate/sheet for boilers and Pressure Vessels steels

DIN17102 WStE255 steel plate/sheet, DIN17102 WStE255 steel plate/sheet, under DIN standard, we can regard WStE255 steel plate/sheet for boilers and Pressure Vessels steels. DIN17102 WStE255 steel plate/sheet is for boilers and Pressure Vessels steels, it is a normalized steel plate and sheet which is mainly used for building pressure vessels and boilers and pipes for hot liquid. The followings are the chemical composition and the mechanical properties of DIN17102 WStE255 steel.

This standard [DIN 17102 StE255/WStE255/TStE255/ESStE255](#) applies to hot rolled products in the form of flats(plate, strip, wide, flats), sections and bars of weldable fine grain structural steels exhibiting. Its minimum yield strength of 225 to 255 n/mm referred to the lowest thickness.

Chemical composition of DIN WStE255 steel

Steel grade		Percentage by mass				
symbol	material	C≤	Si≤	Mn	P≤	S≤
StE255	1.0461	0.18	0.40	0.50-	0.035	0.030
WStE255	1.0462	0.18		1.30	0.035	0.030
TStE255	1.0463	0.16		0.030	0.025	
ESStE255	1.1103	0.16		0.025	0.015	

Mechanical properties of DIN WStE255 steel

Grade				Minimum upper yield stress, For thickness of mm					Tensile strength	Minimum elongation after fracture	
				Upt o 12	12- 20	20- 40	40- 50	50- 65		parallel	Transverse
StE	WStE	TstE	ESStE	N/mm ²					N/mm ²	%	
255	255	255	255	255	255	245	235	22 5	360- 480	25	23

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