

DIN17102 E ST E 285 steel plate/sheet for boilers and Pressure Vessels steels

DIN17102 E ST E 285 steel plate/sheet, DIN17102 E ST E 285 steel plate/sheet, under EN standard, we can regard E ST E 285 steel plate/sheet for boilers and Pressure Vessels steels. DIN17102 P275NL12 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. And the followings are the chemical composition and mechanical properties of E ST E 285.

If you are looking for Chinese E ST E 285 steel supplier, if you want to know E ST E 285 steel price, please be free to contact us.

The chemical composition of EN E ST E 285 steel

Element	Max %	Element	max %
C	0.16	Cu	0.30
Si	0.40	Mo	0.08
Mn	0.50-1.50	N	0.02
P	0.03	Nb	0.05
S	0.02	Ni	0.50
AL	0.020	Ti	0.03
Cr	0.30	V	0.05
Nb+Ti+V	0.05		

The mechanical properties of EN E ST E 285 steel

Grade	Material	Thickness	Yield Strength	Tensile Strength	Elongation
		(mm)	MPa (min)	MPa	% (min)
E ST E 285	1.1104	≤ 16	275		
		16 > to ≤ 35	275		
		35 > to ≤ 50	265		
		50 > to ≤ 70	255	370-490	23
		70 > to ≤ 100	235	350-470	1)
		100 > to ≤ 150	225	1)	1)
		> 150	390-510	24	

The impact test of EN E ST E 285 steel

Type	Usual Delivery Condition	Normal Thickness (mm)	Impact Energy KV min[J] at temperature [°C]									
			Longitudinal					Longitudinal				
			-50	-40	-20	0	+20	-50	-40	-20	0	+20
E ST E 285	N	5-150	30	40	65	90	100	27	30	40	60	70

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