

EN10028 P275NL2 steel plate/sheet for boilers and Pressure Vessels steels

EN10028 P275NL2 steel plate/sheet,EN10028 P275NL2 steel plate/sheet, under EN standard, we can regard P275NL2 steel plate/sheet for boilers and Pressure Vessels steels.EN10028 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 P275NL2.

The chemical composition of EN P275NL2 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 P275NL2 steel

Grade	Material	Thickness	Yield Strength	Tensile Strength	Elongation
		(mm)	MPa (min)	MPa	% (min)
P275NL2	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 P275NL2 steel

Bebon steel — The most professional exporter on shipbuilding steel

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Type	Usual Delivery Condition	Nominal Thickness (mm)	Impact Energy KV min[J] at temperature [°C]									
			Longitudinal					Longitudinal				
			-50	-40	-20	0	+20	-50	-40	-20	0	+20
P275 NL2	N	5-150	30	40	65	90	100	27	30	40	60	70

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