

**BEBON**

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Henan BEBON international co.,ltd

EN10028 P275N steel plate/sheet for boilers and Pressure Vessels steels

EN10028 P275N steel plate/sheet, EN10028 P275N steel plate/sheet, under EN standard, we can regard P275N steel plate/sheet for boilers and Pressure Vessels steels. EN10028 P275N 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 chemical composition of EN P275N steel

Element	Max %	Element	max %
C	0.18	Cu	0.30
Si	0.40	Mo	0.08
Mn	0.50-1.40	N	0.02
P	0.03	Nb	0.05
S	0.03	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 P275N steel

Grade	Material	Thickness	Yield Strength	Tensile Strength	Elongation
		(mm)	MPa (min)	MPa	% (min)
P275N	1.0486	≤ 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 P275N steel

	Usual	Normal	Impact Energy KV min[J] at temperature [°C]
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Bebon steel — The most professional exporter on shipbuilding steel

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Type	Delivery Condition	Thickness (mm)	Longitudinal					Longitudinal				
			-50	-40	-20	0	+20	-50	-40	-20	0	+20
P275 N	N	5-150	-	-	40	47	55	-	-	20	27	31

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