

EN10028 P355N steel plate/sheet for boilers and Pressure Vessels steels

EN10028 P355N steel plate/sheet, EN10028 P355N steel plate/sheet, under EN standard, we can regard P355N steel plate/sheet for boilers and Pressure Vessels steels. EN10028 P355N 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 P355N steel

Element	Max %	Element	max %
C	0.20	Cu	0.30
Si	0.50	Mo	0.08
Mn	0.90-1.70	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	0.10
Nb+Ti+V	0.12		

The mechanical properties of EN P355N steel

Grade	Material	Thickness	Yield Strength	Tensile Strength	Elongation
		(mm)	MPa (min)	MPa	% (min)
P355N	1.0562	≤ 16	355		
		16 > to ≤ 35	355		
		35 > to ≤ 50	345		
		50 > to ≤ 70	325	490-630	22
		70 > to ≤ 100	315	470-610	21
		100 > to ≤ 150	295	450-590	21
		> 150	1)	1)	1)

The impact test of EN P355N 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
P355 N	N	5-150	-	-	40	47	55	-	-	20	27	31

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