



P460 NL1 steel plate, Europe standard P460 NL1 steel plate, under Europe standard standard, we can regard P460 NL1 steel plate as High Yield steel plate

P460 NL1 steel plate is one of the mainly High Yield steel, Steel sheet P460 NL1

Boiler steel plates P460NL1 tensile strength is at 570_720 Mpa for thickness belows 60mm,even maximum 730 Mpa is OK for the product thicknesses up to 16 millimeters

P460NL1 Chemical composition cast analysis

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Element	P460NL1	Element	P460NL1
Carbon (C) max.	0.20	Silicon (Si) max.	0.60
Manganese (Mn)	1.10 to 1.70	Phosphorous (P) max.	0.025
Sulphur (S) max.	0.015	Chromium (Cr) min.	0.30
Molybdenum (Mo) max.	0.10	Nickel (Ni) max.	0.80
Niobium (Nb) max.	0.05	Titanium (Ti) max.	0.03
Vanadium (V) max.	0.20	Nitrogen (N) max.	0.025
Aluminium (Al) max.	0.020	Copper (Cu) max.	0.70

Mechanical Properties of P460 NL1

Grade	Type	Thickness (mm)	Yield Strength MPa (min)	Tensile Strength MPa	Elongation % (min)
P460 NL1	Normalized	≤ 16	460	570 to 750	17
		16> to ≤40	445	570 to 720	17
		40> to ≤60	430	570 to 720	17
		60> to ≤100	400	540 to 710	17
		100> to ≤150	—	—	17

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