

4140 steel palte

[4140 steel palte](#) is a kind of alloy structural steel, which has high strength, high hardenability, good toughness and small deformation during quenching.



It has high strength, high hardenability, good toughness, small deformation during quenching and high creep strength and lasting strength at high temperature. It is used for manufacturing forgings, which require higher strength and better quality of quenching and tempering than 35CrMo steel, such as large gears for locomotive traction, supercharger drive gears, rear axle, load bearing large connecting rods and spring clamps. It can also be used for oil deep well drill pipe joints and fishing tools below 2000m.

4140 steel, the steel has good processability, small deformation, anti fatigue performance is quite good, and so on Hardenability of steel 4140 after heat treatment and has high strength and good mechanical properties, good manufacturability, high yield. The highest temperature is 427 degrees Celsius. 4140 strength hardenability high toughness,

small deformation quenching, high temperature strength and high creep rupture strength. Requirements for the manufacture of 35CrMo steel with higher strength and conditioning section large forgings, such as locomotive traction gears, with supercharger drive gear, the rear axle, the connecting rod and the spring load greatly clip, 2000m can also be used for the following deep oil drill pipe joints and fishing tools, and can be used for bending machine mould.

Standard: STEEL PALTE

Grade: 4140

Thickness: 8mm-150mm

Width: 1000mm-4000mm

Length: 1000mm-20000mm

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MOQ: 1 PC

Product type: Steel plate

Delivery time: Promptly (Stock) or 10-40 days (Production)

Stock: Available

MTC: Available

Delivery condition: AS REQUIREMENTS

(C)0.38 ~ 0.45

(Si)0.17 ~ 0.37

(Mn)0.50 ~ 0.80

(P)≤0.035

(S)≤0.035

(Cr)0.9 ~ 1.20

(Ni)≤0.30

(Mo)0.15 ~ 0.25

(Cu)≤0.30

Tensile σ_b (MPa): ≥1080(110)

Yield σ_s (MPa): ≥930(95)

Elongation δ_5 (%): ≥12

ψ (%): ≥45

Impact A_{kv} (J): ≥63

α_{kv} (J/cm²): ≥78(8)

Hardness : ≤217HB