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EN10083-3 34CrMo4 steel work/ steel structures/ steel machining parts

EN10083-3 34CrMo4 (1.7220) steel has high static strength, high impact toughness and high fatigue limit. Compared with 40Cr steel, 34CrMo4 steel has higher harden-ability. 34CrMo4 steel has high creep strength in high temperature, and it can work in 500°C temperature. Its plasticity is ordinary in cold deformation, and its weld-ability is not very well.

Heat treatment: quenching 850 $^\circ\!\mathrm{C}$;oil cooling; tempering 550 $^\circ\!\mathrm{C}$; water cooling and oil cooling.

Delivery condition: heat treatment (positive fire, annealing or high temperature tempering); without heat treatment Chemical composition:

- C: 0.30~0.37
- Si: ≤0.40
- Mn: $0.60{\sim}0.90$
- $S: \leq 0.035$
- P: ≤0.025
- Cr: 0.90~1.20
- Mo: $0.15 \sim 0.30$

Mechanical properties after quenching and tempering:

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( Diameter \leq16mm; Thickness \leq 8mm)
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Tensile strength o b (MPa): 1000-1200
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Yield strength σ s (MPa): \geq 800

Elongation δ 5 (%): \geq 11

(16mm<Diameter \leq 40mm; 8mm<Thickness \leq 20mm)

Tensile strength o b (MPa): 900-1100

Yield strength σ s (MPa): \geq 650

Elongation δ 5 (%): \geq 12

($40mm < Diameter \le 100mm$; $20mm < Thickness \le 60mm$)

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Tensile strength o b (MPa): 800-950
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Yield strength \sigma s (MPa): \geq550
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Elongation δ 5 (%): \geq 14

The raw material of 34CrMo4 steel includes 34CrMo4 steel plate, 34CrMo4 steel pipe, 34CrMo4 steel round bar. With our deep processing, we can provide the 34CrMo4 steel work, 34CrMo4 steel structures and 34CrMo4 steel machining parts: they are usually used as structural component with

high load work, such as transmission parts in vehicle and engine, the rotor, spindle, transmission shaft with heavy load.

Shanghai Katalor is located in Pudong district of Shanghai city. It is only 30 minutes from Pudong International airport to our company. If you have chance to China, we sincerely invite you to visit us. We have five big steel processing centers located in Shanghai City, Tianjin City, Qingdao City, Wuhan City and Nanyang City. Every processing center can process steel material 200,000 tons annually, So we have the capacity to offer the processing like cutting, drilling, wedding, milling, turning, bending, etc. We have the ability to produce every kinds of steel structural parts. If you need 34CrMo4 steel work/ steel structures/ steel machining parts, please be free to contact us.



Email:info@katalor.com

Tel:0086-21-61182423



Shanghai Katalor Enterprises Co., Ltd located in shanghai of china, is specialized in manufacturing and exporting steel and casting product. Based on the domestic rich product resources and professional research on international market,Katalor'service has already spread many countries in Europe , America, Southeast Asia, Middle East, South America, Africa, and so on.

Contact US:

Phone: 0086-18317160019 TEL: 0086-21-61182423 Fax: 0086-21-61182425 E-mail: info@katalor.com Skype: shanghai.katalor Address : Room 301,Unit 6,Iane 2500,xiupu Road,Kangqiao Industrial Area,Pudong New District,Shanghai