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GB/T 3077 30CrMnSiA alloy steel plate on sale

GB/T 3077 30CrMnSiA alloy steel plate is a medium carbon, high strength, poor welding performance. After tempering, GB/T 3077 30CrMnSiA alloy steel plate has high strength and sufficient toughness and hardenability. Katalor is the supplier of GB/T 3077 30CrMnSiA alloy steel plate. Katalor is a good choice if you are looking for GB/T 3077 30CrMnSiA alloy steel plate supplier. The below is the detail information of GB/T 3077 30CrMnSiA alloy steel plate Katalor supplied for your reference.

The application of GB/T 3077 30CrMnSiA alloy steel plate:

After conditioning, the material can be used as a grinding wheel shaft, gear, and sprocket. GB/T 3077 30CrMnSiA alloy steel plate has good processability, small processing distortion, and very good fatigue resistance. For shafts, pistons and other parts. For cars, aircraft, a variety of special wear-resistant parts and so on.

GB/T 3077 30CrMnSiA alloy steel plate chemical composition:

Carbon C: 0.28 to 0.34

Silicon Si: 0.90 to 1.20

30CrMnSiA round steel

30CrMnSiA round bar [1]

Manganese Mn: 0.80 to 1.10

Sulfur S: Permissible residual content  $\leq 0.025$

Phosphorus P: Permissible residual content  $\leq 0.025$

Chrome Cr: 0.80 to 1.10

Nickel Ni: Permissible residual content  $\leq 0.030$

Copper Cu: Permissible residual content  $\leq 0.025$  [2]

GB/T 3077 30CrMnSiA alloy steel plate Mechanical properties:

Tensile strength  $\sigma_b$  (MPa):  $\geq 1080(110)$

Yield strength  $\sigma_s$  (MPa):  $\geq 835(85)$

Elongation  $\delta_5$  (%):  $\geq 10$

30CrMnSiA alloy structure round steel

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Section shrinkage  $\psi$  (%):  $\geq 45$

Impact work  $A_{kv}$  (J):  $\geq 39$

Impact toughness value  $\alpha_{kv}$  (J/cm<sup>2</sup>):  $\geq 49(5)$

Hardness:  $\leq 229HB$

Specimen size: The blank size of the sample is 25mm

GB/T 3077 30CrMnSiA alloy steel plate Heat Treatment Specification and Metallographic

Organization:

Heat treatment specification: quenched 880°C, oil cooled; tempered 540°C, water cooled, oil

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cooled.

GB/T 3077 30CrMnSiA alloy steel plate delivery status

For heat treatment (normalizing, annealing or high-temperature tempering) or for delivery without heat treatment, the delivery status shall be stated in the contract.

GB/T 3077 30CrMnSiA alloy steel plate has high strength, but it belongs to medium-carbon quenched and tempered steel and has a large hardenability, so the welding performance is very poor.

GB/T 3077 30CrMnSiA alloy steel plate has high strength and sufficient toughness after quenching and tempering, and also has good hardenability. After conditioning, GB/T 3077 30CrMnSiA alloy steel plate can be used as a grinding wheel shaft, gear, and sprocket. If you do a tool, roughing becomes a tool shape. Carbide milling cutters are used to mill the cutting edges and polished by a polishing machine. Surface roughness up to 3.2 should be no problem. GB/T 3077 30CrMnSiA alloy steel plate is darker in color and galvanized is not just for beauty, but also for rust prevention.

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specialized in manufacturing and exporting steel and casting product. Based on the domestic rich product resources and professional research on international market, Katalor's service has already spread many countries in Europe, America, Southeast Asia, Middle East, South America, Africa, and so on.

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