



SAE4140 & SAE4142 Steel Work/Steel Structures/Steel Machining Parts

SAE4140 & SAE4142 are chromium, molybdenum, manganese containing low alloy steel. They have high fatigue strength, abrasion and impact resistance, toughness, and torsional strength. The following datasheet gives an overview of SAE4140 & SAE4142 Steel:

SAE4140 & SAE4142 Steel Chemical Composition max:

Grade	C	Mn	P	S	Si	Cr	Mo
4140	0.36~0.44	0.75~1.00	0.030	0.040	0.15~0.35	0.80~1.10	0.15~0.25
4142	0.38~0.46	0.75~1.00	0.030	0.040	0.15~0.35	0.80~1.10	0.15~0.25

SAE4140 & SAE4142 Steel Tensile Strength Ranges:

Specified Maximum Tensile Strength Ksi (MPa)	Tensile Strength Range Ksi (MPa)
Up to 780 (480)	15 (100)
Over 70 to 110 (480 to 760)	20 (135)
Over 110 to 140 (760 to 965)	25 (170)

SAE4140 & SAE4142 Steel Works/Steel Structures/Steel Machining Parts Machinability also shown in the following: forming, heat treatment, forging, hot working, cold working, annealing, tempering, and hardening.

SAE4140 & SAE4142 Steel Work/Steel Structures/Steel Machining Parts Repair by Welding:

- Repairs by welding shall be performed by competent welders using low-hydrogen electrodes selected so that the chemical composition of the deposited weld metal is similar to the nominal composition of the base plate.
- If repair by welding is not acceptable, or if approval of the welding procedure by the purchaser is required, the order shall so specify.

Welcome you to contact us to get more information about it, if you have requirements of SAE4140 & SAE4142 Steel Work/Steel Structures/Steel Machining Parts please contact us at info@katalor.com or Skype: shanghai.katalor



Shanghai Katalor Enterprises

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

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