

CNC Machining | Sheet Metal | Injection Molding | Post-Processing

Alloy Steel 4140, also known as AISI 4140 or SCM440, is a versatile low-alloy steel that contains chromium, molybdenum, and manganese. It is widely used in various industries due to its excellent strength, toughness, and wear resistance properties.

Chemical Composition		Physical Properties	
Element	Maximum Unless Range is Specified	Property	Maximum Unless Range is Specified
Silicon	.15-0.30	Density,lbs/in3	0.284
Carbon	.3843	Coefficient of thermal expansion µin/in°F	6.78
Phosphorus	.035		
Sulfur	.040	Thermal Conductivity ,BTU hr.ft2.°F	296
Manganese	.75-1.00		
Chromium	.80-1.10	Melting Point (Deg°F)	2580
Molybdenum	.1525	Modules of Elasticity ,ksi	27,557-30,458
Iron	Balance		

## Mechanical Properties

Property	Maximum Unless Range is Specified	
Tensile Strength,ksi	95	
Yield Strength,ksi	60	
Elongation at Break	25.7%	
Hardness, Rockwell B	92	

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.

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