Naxtry Future-Driven Manufacturing

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

Alloy Steel 4340, also known as AISI 4340, is a nickel-chromium-molybdenum alloy steel that offers high strength, toughness, and fatigue resistance. It is commonly used in applications that require excellent strength-to-weight ratio, such as aerospace, automotive, and oil and gas industries.

Physical Properties

Chemical Composition

Element	Maximum Unless Range is Specified	Property	Maximum Unless Range is Specified
Silicon	.15-0.30	Density,lbs/in3	0.284
Carbon	.3743	Coefficient of thermal expansion µin/in°F	6.83
Phosphorus	.035		
Sulfur	.040	Thermal Conductivity ,BTU hr.ft2.°F	309
Manganese	.6080		
Chromium	.7090	Melting Point (Deg°F)	2600
Molybdenum	.2030	Modules of Elasticity ,ksi	27,557-30,458
Nickel	1.65-2.00		
Iron	Balance		

Mechanical Properties

Property	Maximum Unless Range is Specified	
Tensile Strength,ksi	108	
Yield Strength,ksi	68.2	
Elongation at Break	22%	
Hardness, Rockwell B	95	

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.