

Material: AS 4340

Standard Specification for Alloy Steels - Hardened and Tempered

Group: Ferrous Mild Steel Alloys

Sub Group: AS 4340 Alloy Steels - Hardened and Tempered

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Bar, Wire, Tube and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.370 - 0.440	As- Cast or Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.100 - 0.350		
Manganese	Mn %	0.550 - 0.900		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.650 - 0.900		
Nickel	Ni %	1.550 - 2.000		
Molybdenum	Mo %	0.200 - 0.300		
Copper	Cu %	0.350 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	850 - 1380
-	-	-	Yield Strength in Mpa	635 min.
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	248 - 429
-	-	-	Impact in Joule	9 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A915 Grade SC 4340	ASTM	USA	Casting
J24053	UNS	USA	Casting
4340	AISI	USA	Bar, Wire, Tube and Forging
4340	AMS	USA	Bar, Wire, Tube and Forging
4340	SAE	USA	Bar, Wire, Tube and Forging
A 29 4340	ASTM	USA	Bar, Wire, Tube and Forging
A 505 4340	ASTM	USA	Bar, Wire, Tube and Forging

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Customer Care: +91-99090 45075 Email: info@icastllp.com