

Material: AMS 4340

Standard Specification for General Characteristics and Heat Treatments of Steels

Group: Ferrous Mild Steel Alloys

Sub Group: AMS 4340 General Characteristics and Heat Treatments of Steels

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

Grade Belongs to the Industry: Bar and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.380 - 0.430	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.600 - 0.800		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.700 - 0.900		
Nickel	Ni %	1.650 - 2.000		
Molybdenum	Mo %	0.200 - 0.300		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	1241 min.
-	-	-	Yield Strength in Mpa	1000 min.
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	5 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J24054	UNS	USA	Casting
4340	SAE	USA	Bar, Tube, Sheet, Strip and Forging
4340	AISI	USA	Casting
A732 10Q	AISI	USA	Casting
J13080	UNS	USA	Casting
A487 13B	ASTM	USA	Casting
SA 487 13A	ASME	USA	Casting

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