

Material: UNS J24054

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J24054 Alloy Steel Casting

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.350 - 0.450	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.200 - 0.800		
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.700 - 0.900		
Nickel	Ni %	1.650 - 2.000		
Molybdenum	Mo %	0.200 - 0.300		
Tungsten	W %	0.100 max.	Mechanical Properties	
Copper	Cu %	0.500 max.	Tensile Strength in Mpa	1241 min.
Iron	Fe %	Balance	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
AISI 4340	AISI	USA	Forging, Bar, Wire, and Shape
4340	SAE	USA	Bar, Tube, Sheet, Strip and Forging
4340	AMS	USA	Bar and Forging
A732 10Q	AISI	USA	Casting
J13080	UNS	USA	Casting
A487 13B	ASTM	USA	Casting
SA 487 13A	ASME	USA	Casting

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