

# Material: SAE 420

## Standard Specification for Steel Castings Sheet, Strip and Plate for General Engineering Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** SAE 420 Steel Castings Sheet, Strip and Plate for General Engineering Purposes

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

**Grade Belongs to the Industry:** Sheet, Strip and Plate

Chemical Composition		
Carbon	C %	0.300 - 0.400
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	12.000 - 14.000
Aluminium	Al %	0.150 max.
Copper	Cu %	0.500 max.
Molybdenum	Mo %	1.000 max.
Tin	Sn %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As Raw or Annealing or Normalizing or Hardening and Tempering	

Mechanical Properties	
Tensile Strength in Mpa	689 - 793
Yield Strength in Mpa	-
Elongation in %	12 min.
Reduction of Area in %	-
Hardness in BHN	241 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
420C28	BS	British	Casting
420C29	BS	British	Casting
420	AISI	USA	Forging
A 176 S42000	ASTM	USA	Steel Plate, Sheet and Strip
A 176 Type 420	ASTM	USA	Steel Plate, Sheet and Strip
A 314 420	ASTM	USA	Billets and Bars for Forging
A 314 S42000	ASTM	USA	Billets and Bars for Forging

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