



## 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			Heat Treatment	
Carbon	C %	0.300 - 0.400	As Raw or Annealing or Normalizing or Hardening and Tempering	
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	<b>Mechanical Properties</b> 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              -	
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-	-	-		
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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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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