



## Material - AISI 420

### Standard Specification for Steel Castings Forging for General Engineering Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - AISI 420 Steel Castings Forging for General Engineering Purposes

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

Grade Belongs to the Industry - Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.	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		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      689 - 860 Yield Strength in Mpa      - Elongation in %      15 min. Reduction of Area in %      - Hardness in BHN      241 max. Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
420C28	BS	British	Casting
420C29	BS	British	Casting
420	SAE	USA	Sheet, Strip and Plate
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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