

## Material - AISI 420F

## Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application

**Group - Ferrous Stainless Steel Alloys** 

Sub Group - AISI 420F Castings, Iron-Chromium, Iron-Chromium-Nickel, Corrosion Resistant, for General Application Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 - 0.400		
Silicon	Si %	1.500 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.	Annealing or Hardening + Tempering	ng + Tempering
Sulphur	S %	0.200 - 0.400		
Chromium	Cr %	11.500 - 14.000		
Nickel	Ni %	1.000 max.		
Molybdenum	Mo %	0.500 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	690 min.
-	-	-	Yield Strength in Mpa	485 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardn <mark>ess in HB</mark>	269 max.
-	-	-	Impa <mark>ct in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
J9154	UNS	USA	Casting	
A895 Type 420F	ASTM	USA	Plate, Sheet and Strip	
A959 Type 420F	ASTM	USA	Bar, Wire, Shapes and Forging	
A 582 Type 420F	ASTM	USA	Bar and Forging	
SUS 420F	JIS	Japan	Bar and Forging	
S 42020	UNS	USA	Casting	
A743 CA40F	ASTM	USA	Casting	

## Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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