

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	Annealing or Hardening + Tempering	
Silicon	Si %	1.500 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
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 % - Hardness in HB 269 max. Impact in Joule -	
-	-	-		
-	-	-		
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-	-	-		
-	-	-		
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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

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