

Material: JIS SUS 420F

Standard Specification for Cold Finished Martensitic Stainless Steel Bars

Group: Ferrous Stainless Steel Alloys

Sub Group: JIS SUS 420F Cold Finished Martensitic Stainless Steel Bars

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

Grade Belongs to the Industry: Bar and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.260 - 0.400	Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.250 max.		
Phosphorus	P %	0.060 max.		
Sulphur	S %	0.150 min.		
Chromium	Cr %	12.000 - 14.000		
Nickel	Ni %	0.600 max.		
Molybdenum	Mo %	0.600 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	590 - 930
-	-	-	Yield Strength in Mpa	540 min.
-	-	-	Elongation in %	8 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	217 - 235
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
420F	AISI	USA	Bar, Wire, Shapes and Forging
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
J9154	UNS	USA	Casting
S 42020	UNS	USA	Casting
A743 CA40F	ASTM	USA	Casting

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