

Material - ASTM A582 Type 420F

Standard Specification for Free-Machining Stainless Steel Bars

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A582 Type 420F Free-Machining 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 %	0.300 - 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 %	0.050 max.		
Copper	Cu %	0.600 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 262 max. Impact in Joule -	
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-	-	-		
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-	-	-		
-	-	-		
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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
J9154	UNS	USA	Casting
SUS 420F	JIS	Japan	Bar and Forging
S 42020	UNS	USA	Casting
A743 CA40F	ASTM	USA	Casting

For any further inquiries, please do not hesitate to contact us. You may visit our website at AMTECH TECHNOCAST PVT. LTD., call us at [+91 9879817994](tel:+919879817994), or email us at manish@amtechtechnocast.com

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