

Material: AISI 422

Standard Specification for Stainless and Heat Resisting Steels

Group: Ferrous Stainless Steel Alloys

Sub Group: AISI 422 Stainless and Heat Resisting Steels

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

Grade Belongs to the Industry: Bar, Wire, Shapes and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 - 0.280	Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	0.500 - 1.000		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	11.000 - 12.500		
Nickel	Ni %	0.500 - 1.000		
Molybdenum	Mo %	0.900 - 1.250		
Vanadium	V %	0.200 - 0.300		
Tungsten	W %	0.900 - 1.250		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 965 min. Yield Strength in Mpa 760 min. Elongation in % 10 min. Reduction of Area in % 24 min. Hardness in BHN 248 min. Impact in Joule 26 J @ RT	
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-	-	-		
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4935	DIN	Germany	Casting
SUH 616	JIS	Japan	Bar and Wire
20 VNiMoCr 120	STAS	Romania	Casting
S 42100	UNS	USA	Casting
X 20 CrMoWV 12-1	DIN	Germany	Casting
A176 Type 422	ASTM	USA	Plate, Sheet and Strip
A743 CA28MWV	ASTM	USA	Casting

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