



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	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

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

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.