

Material: ASTM A176 Type 422

Standard Specification for Stainless and Heat Resisting Chromium Steel Plate, Sheet and Strip

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A176 Type 422 Stainless and Heat Resisting Chromium Steel Plate, Sheet and Strip

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

Grade Belongs to the Industry: Plate, Sheet and Strip

Chemical Composition		
Carbon	C %	0.200 - 0.250
Silicon	Si %	0.500 max.
Manganese	Mn %	0.500 - 1.000
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Annealing or Hardening + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HRC	24 max.
Impact in Joule	-

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
422	AISI	USA	Bar, Wire, Shapes and Forging
A743 CA28MWV	ASTM	USA	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India