

Material: DIN 1.4935

Standard Specification for High-Temperature Resisting CrMoW Steel

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4935 High-Temperature Resisting CrMoW Steel

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.170 - 0.240	Annealing or Hardening + Tempering	
Silicon	Si %	0.100 - 0.500		
Manganese	Mn %	0.300 - 0.800		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	11.000 - 12.500		
Nickel	Ni %	0.300 - 0.800		
Molybdenum	Mo %	0.800 - 1.200		
Vanadium	V %	0.200 - 0.350		
Tungsten	W %	0.400 - 0.600		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	700 - 950
-	-	-	Yield Strength in Mpa	500 min.
-	-	-	Elongation in %	14 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
422.0000	AISI	USA	Bar, Wire, Shapes and Forging
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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Customer Care: +91-99090 45075 Email: info@icastllp.com