

Material: DIN X 20 CrMoWV 12-1

Standard Specification for High-Temperature Resisting CrMoW Steel

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN X 20 CrMoWV 12-1 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 %	0.250 - 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 %	24 min.
-	-	-	Hardness in BHN	269 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
422	AISI	USA	Bar, Wire, Shapes and Forging
A176 Type 422	ASTM	USA	Plate, Sheet and Strip
A743 CA28MWV	ASTM	USA	Casting

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