

Material: MSZ 10 CrMo 9-10

Standard Specification for Steels for High-Pressure Hydrogenation Vessels

Group: Ferrous Mild Steel Alloys

Sub Group: MSZ 10 CrMo 9-10 Steels for High-Pressure Hydrogenation Vessels

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

Grade Belongs to the Industry: Bar, Tube and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 - 0.140	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.500 Max.		
Manganese	Mn %	0.300 - 0.700		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	2.000 - 2.500		
Molybdenum	Mo %	0.900 - 1.100		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	450 - 630
-	-	-	Yield Strength in Mpa	250 min.
-	-	-	Elongation in %	17 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	27 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.7375	DIN	Germany	Tube
1.7380	EN	European Union	Bar, Plate and Forging
10 CD 9-10	AFNOR NF	France	Plate
10 CrMo 10	STAS	Romania	Tube
J22090	UNS	USA	Casting
10 CrMo 9-10	BS	British	Steel
A356 10	ASTM	USA	Casting

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