



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	Normalising 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

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.