GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

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		
Carbon	C %	0.080 - 0.140
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalising or Annealing or Hardening + Tempering

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