



Material - MSZ 12 Cr 10 MoVNi 70.47

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - MSZ 12 Cr 10 MoVNi 70.47 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry - Steel and Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.170 - 0.230	Normalising + Tempering	
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	10.000 - 12.500		
Molybdenum	Mo %	0.800 - 1.200		
Nickel	Ni %	0.300 - 0.800		
Vanadium	V %	0.250 - 0.350		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 690 - 840 Yield Strength in Mpa 490 min. Elongation in % 17 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 48 J @ RT	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4922	EN	European Union	Forging, Rolling, Steel and Bar
1.4922	DIN	Germany	Forging, Rolling, Steel and Bar
1.4922	DIN	Germany	Forging, Rolling, Steel and Bar
X20CrMoV121	ISO	International	Forging, Rolling, Steel and Bar
762	BS	British	Steel and Tube
X20CrMoNiV11 11	ISO	International	Steel and Tube
X20CrMoV121	DIN	Germany	Forging, Rolling, Steel and Bar

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.