



Material - ISO X 12 CrMo 51

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Alloy Steel

Sub Group - ISO X 12 CrMo 51 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry - Steel, Forging, Rolling and Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 - 0.150	Isothermal Annealing	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	4.000 - 6.000		
Molybdenum	Mo %	0.450 - 0.650		
Iron	Fe %	Balance		
-	-	-		
Mechanical Properties				
Tensile Strength in Mpa		430 - 580		
Yield Strength in Mpa		175 min.		
Elongation in %		18 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
1.7362+I	EN	European Union	Steel and Tube
1.7362+I	DIN	Germany	Steel
1.7362+I	DIN	Germany	Steel
X12CrMo5	DIN	Germany	Steel
X11CrMo5TA	ISO	International	Steel
X11CrMo5TN+TT	ISO	International	Steel and Tube
X12CrMo5	EN	European Union	Steel

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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