



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - EN X 12 CrMo 5

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Alloy Steel

Sub Group - EN X 12 CrMo 5 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry - Steel

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 %	0.025 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	4.000 - 6.000		
Molybdenum	Mo %	0.450 - 0.650		
Iron	Fe %	Balance		
-	-	-		
Mechanical Properties				
Tensile Strength in Mpa		480 - 640		
Yield Strength in Mpa		220 min.		
Elongation in %		20 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
X12CrMo51	ISO	International	Steel, Forging, Rolling and Bar
X11CrMo5TA	ISO	International	Steel
X11CrMo5TA	ISO	International	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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ONE STOP SOLUTION FOR METAL PARTS