



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - DIN X12CrMo5

### Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Alloy Steel

Sub Group - DIN X12CrMo5 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 %	0.100 - 0.150	Isothermal Annealing	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.005 max.		
Chromium	Cr %	4.000 - 6.000		
Molybdenum	Mo %	0.450 - 0.650		
Copper	Cu %	0.300 max.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      450 - 690 Yield Strength in Mpa      300 min. Elongation in %      20 min. Reduction of Area in %      - Hardness in HB      - Impact in Joule      34 J @ RT	
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-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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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
X12CrMo51	ISO	International	Steel, Forging, Rolling and Bar
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](mailto: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.

**ONE STOP SOLUTION FOR METAL PARTS**