

# 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		
Carbon	C %	0.100 - 0.150
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Isothermal Annealing

Mechanical Properties	
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

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

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India