

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		
Carbon	C %	0.080 - 0.150
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Isothermal Annealing

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

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