

Material: ISO X 11 CrMo 91 TA

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: ISO X 11 CrMo 91 TA Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry: Steel and Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 - 0.150	Isothermal Annealing	
Silicon	Si %	0.250 - 1.000		
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	8.000 - 10.000		
Molybdenum	Mo %	0.900 - 1.100		
Aluminium	Al %	0.020 max.		
Copper	Cu %	0.250 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	440 - 620
-	-	-	Yield Strength in Mpa	205 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
1.7386+I	EN	European Union	Steel and Tube
1.7386+I	DIN	Germany	Steel and Tube
1.7386+I	DIN	Germany	Steel and Tube
X11CrMo91TN+TT	ISO	International	Steel and Tube
X12CrMo9 1	DIN	Germany	Steel and Tube
17116	CSN	Czech Republic	Steel
X12Cr9KG	UNI	Italy	Steel and Forging

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