



Material - ISO X 11 CrMo 91 TN+TT

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - ISO X 11 CrMo 91 TN+TT 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 %	0.300 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 590 - 740 Yield Strength in Mpa 390 min. Elongation in % 18 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 27 J @ RT	
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-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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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
X11CrMo91TA	ISO	International	Steel and Tube
X12CrMo9 1	DIN	Germany	Steel and Tube
17116	CSN	Czech Republic	Steel
X12Cr9KG	UNI	Italy	Steel and Forging

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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