



Material - DIN X 10 CrMoVNb 9-1

Standard Specification for Seemless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - DIN X 10 CrMoVNb 9-1 Seemless 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 %	0.080 - 0.120		
Silicon	Si %	0.200 - 0.500		
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.020 max.	Normalising + Tempering	
Sulphur	S %	0.005 max.		
Chromium	Cr %	8.000 - 9.500		
Molybdenum	Mo %	0.850 - 1.050		
Nickel	Ni %	0.300 max.		-
Vanadium	V %	0.180 - 0.250	Mechanical Properties	
Aluminium	Al %	0.040 max.	Tensile Strength in Mpa	520 - 850
Nitrogen	N %	0.030 - 0.070	Yield Strength in Mpa	435 min.
Niobium	Nb %	0.060 - 0.100	Elongation in %	17 min.
Iron	Fe %	Balance	Reduction of Area in %	68 - 73
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	27 J @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
1.4903	EN	European Union	Steel and Tube	
1.4903	DIN	Germany	Steel	
1.4903	DIN	Germany	Steel	
91	BS	British	Steel and Tube	
J84090	UNS	USA	Casting	
X10CrMoVNb9-1	ISO	International	Steel and Tube	
TU Z 10 CDVNb 09 01	AFNOR NF	France	Steel and Tube	

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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