



Material - AFNOR NF TUZ 10 CDVNb 09-01

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - AFNOR NF TUZ 10 CDVNb 09-01 Seamless Steel Tubes for Pressure Purposes Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 - 0.120		
Silicon	Si %	0.200 - 0.500	Normalising or Annealing or Hardening + Tempering	
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	8.000 - 9.500		
Molybdenum	Mo %	0.850 - 1.050		
Nickel	Ni %	0.400 max.		
Vanadium	V %	0.180 - 0.250	Mechanical Properties	
Niobium	Nb %	0.060 - 0.100	Tensile Strength in Mpa	585 - 770
Copper	Cu %	0.250 max.	Yield Strength in Mpa	415 min.
Tin	Sn %	0.030 max.	Elongation in %	20 min.
Iron	Fe %	Balance	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	40 J @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
1.4903	UNS	USA	Casting	
A234 Grade WP91	ASTM	USA	Pipe	
A336 Grade F91	ASTM	USA	Forging	
J84090	UNS	USA	Steel	
X 10 CrMoVNb 9-1	DIN	Germany	Steel	
J80490	UNS	USA	Casting	
A217 Grade C12A	ASTM	USA	Casting	

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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