

Material: BS 10216-2 EN 1.4903

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: BS 10216-2 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 - 0.120	Normalising + Tempering	
Silicon	Si %	0.200 - 0.500		
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	8.000 - 9.500		
Nickel	Ni %	0.400 max.		
Molybdenum	Mo %	0.850 - 1.050		
Aluminium	Al %	0.040 max.		
Copper	Cu %	0.300 max.		
Niobium	Nb %	0.060 - 0.100	Mechanical Properties	
Vanadium	V %	0.180 - 0.250	Tensile Strength in Mpa	630 - 830
Nitrogen	N %	0.030 - 0.070	Yield Strength in Mpa	450 min.
Iron	Fe %	Balance	Elongation in %	17 min.
-	-	-	Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	27 min. @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4903	EN	European Union	Steel
1.4903	DIN	Germany	Steel
X10CrMoVNb9-1	DIN	Germany	Steel
91	BS	British	Steel and Tube
J80490	UNS	USA	Casting
X10CrMoVNb9-1	ISO	International	Steel and Tube
TU Z 10 CDVNb 09 01	AFNOR NF	France	Steel and Tube

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