

Material: BS 91

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: BS 91 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry: Steel

Chemical Composition		
Carbon	C %	0.080 - 0.120
Silicon	Si %	0.200 - 0.500
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.020 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	8.000 - 9.500
Molybdenum	Mo %	0.850 - 1.050
Nickel	Ni %	0.400 max.
Vanadium	V %	0.180 - 0.250
Aluminium	Al %	0.030 max.
Nitrogen	N %	0.030 - 0.070
Niobium	Nb %	0.060 - 0.100
Copper	Cu %	0.250 max.
Tin	Sn %	0.030 max.
Iron	Fe %	Balance

Heat Treatment
Normalizing + Tempering

Mechanical Properties	
Tensile Strength in Mpa	630 - 830
Yield Strength in Mpa	450 min.
Elongation in %	18 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

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
J84090	UNS	USA	Casting
X10CrMoVNb9-1	DIN	Germany	Steel and Tube
X10CrMoVNb9-1	ISO	International	Steel and Tube
TU Z 10 CDVNb 09 01	AFNOR NF	France	Steel and Tube

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