

# Material: DIN 1.4922

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** DIN 1.4922 Seamless Steel Tubes for Pressure Purposes

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

**Grade Belongs to the Industry:** Forging, Rolling, Steel and Bar

Chemical Composition		
Carbon	C %	0.170 - 0.230
Silicon	Si %	0.400 max.
Manganese	Mn %	0.300 - 1.000
Phosphorus	P %	0.025 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	10.000 - 12.500
Molybdenum	Mo %	0.800 - 1.200
Nickel	Ni %	0.300 - 0.800
Vanadium	V %	0.250 - 0.350
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Normalizing + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	686.5 - 931.6
Yield Strength in Mpa	490 min.
Elongation in %	10 min.
Reduction of Area in %	-
Hardness in HB	205 - 280
Impact in Joule	24 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4922	EN	European Union	Forging, Rolling, Steel and Bar
1.4922	DIN	Germany	Forging, Rolling, Steel and Bar
X20CrMoV121	ISO	International	Forging, Rolling, Steel and Bar
12Cr10MoVN10.47	MSZ	Hungary	Steel and Tube
762	BS	British	Steel and Tube
X20CrMoNiV11 11	ISO	International	Steel and Tube
X20CrMoV121	DIN	Germany	Forging, Rolling, Steel and Bar

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