

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			Heat Treatment	
Carbon	C %	0.170 - 0.230	Normalizing + Tempering	
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	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
12Cr10MoVN170.47	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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