



## Material - BS 10216-2 EN 1.4922

### 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 %	0.170 - 0.230	Normalising + Tempering	
Silicon	Si %	0.150 - 0.500		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	10.000 - 12.500		
Nickel	Ni %	0.300 - 0.800		
Molybdenum	Mo %	0.800 - 1.200		
Aluminium	Al %	0.040 max.		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.250 - 0.350		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		

  

Mechanical Properties	
Tensile Strength in Mpa	690 - 840
Yield Strength in Mpa	490 min.
Elongation in %	14 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
1.4922	EN	European Union	Forging, Rolling, Steel and Bar
1.4922	DIN	Germany	Forging, Rolling, Steel and Bar
X20CrMoV12 1	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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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