

# Material: ISO X20CrMoNiV 11 11

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ISO X20CrMoNiV 11 11 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		
Carbon	C %	0.170 - 0.230
Silicon	Si %	0.150 - 0.500
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.030 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
Aluminium	Al %	0.020 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing + Tempering

Mechanical Properties	
Tensile Strength in Mpa	690 - 840
Yield Strength in Mpa	490 min.
Elongation in %	17 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	27 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
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
X20CrMoV121	DIN	Germany	Forging, Rolling, Steel and Bar

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India