Material: ISO X20CrMoNiV 11 11

Standard Specification for Seemless Steel Tubes for Pressure Purposes

Group: *Ferrous Stainless Steel Alloys*

Sub Group: *ISO X20CrMoNiV 11 11 Seemless 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
12Cr10MoVNi70.47	MSZ	Hungary	Steel and Tube
762	BS	British	Steel and Tube
X20CrMoV121	DIN	Germany	Forging, Rolling, Steel and Bar

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