

# Material: AFNOR NF 11 CrMo 9-10

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** AFNOR NF 11 CrMo 9-10 Seamless Steel Tubes for Pressure Purposes

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

**Grade Belongs to the Industry:** Steel and Flat

Chemical Composition		
Carbon	C %	0.080 - 0.150
Silicon	Si %	0.500 max.
Manganese	Mn %	0.400 - 0.800
Phosphorus	P %	0.030 max.
Sulphur	S %	0.025 max.
Chromium	Cr %	2.000 - 2.500
Molybdenum	Mo %	0.900 - 1.100
Copper	Cu %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Quenching + Tempering

Mechanical Properties	
Tensile Strength in Mpa	450 - 680
Yield Strength in Mpa	265 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
10216-2	BS	British	Steel and Flat
1.7383	DIN	Germany	Steel and Flat
1.7383	DIN	Germany	Steel and Flat
11CrMo9-10	BS	British	Steel and Flat
11CrMo9-10	ISO	International	Steel and Tube
11CrMo9-10	UNI	Italy	Steel and Flat
11CrMo9-10	DIN	Germany	Steel and Flat

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