

# Material: DIN 1.7375

## Standard Specification for Seamless Circular Steel Tubes for Hydrogen Service

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** DIN 1.7375 Seamless Circular Steel Tubes for Hydrogen Service

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

**Grade Belongs to the Industry:** Tube

Chemical Composition		
Carbon	C %	0.100 - 0.150
Silicon	Si %	0.300 max.
Manganese	Mn %	0.300 - 0.800
Phosphorus	P %	0.015 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	2.000 - 2.500
Nickel	Ni %	0.300 max.
Molybdenum	Mo %	0.900 - 1.100
Aluminium	Al %	0.010 min.
Copper	Cu %	0.200 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	520 - 690
Yield Strength in Mpa	330 min.
Elongation in %	18 min.
Reduction of Area in %	50 min.
Hardness in BHN	-
Impact in Joule	40 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J22090	UNS	USA	Casting
1.7380	EN	European Union	Bar, Plate and Forging
10 CD 9-10	AFNOR NF	France	Plate
10 CrMo 10	STAS	Romania	Tube
10 CrMo 9-10	MSZ	Hungary	Bar, Tube and Forging
10 CrMo 9-10	BS	British	Steel
A356 10	ASTM	USA	Casting

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