

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			Heat Treatment	
Carbon	C %	0.100 - 0.150	Normalizing or Annealing or Hardening + Tempering	
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	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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