

Material: AFNOR NF FS 12 MD 4

Standard Specification for Wire Rod in Non-Alloy and Alloy Steel for Coiled Electrodes

Group: Ferrous Mild Steel Alloys

Sub Group: AFNOR NF FS 12 MD 4 Wire Rod in Non-Alloy and Alloy Steel for Coiled Electrodes

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

Grade Belongs to the Industry: Wire, Rod and Coil

Chemical Composition			Heat Treatment	
Carbon	C %	0.070 - 0.140	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.100 max.		
Manganese	Mn %	0.900 - 1.200		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	0.150 max.		
Nickel	Ni %	0.150 max.		
Molybdenum	Mo %	0.450 - 0.600		
Titanium	Ti %	0.060 max.	Mechanical Properties	
Aluminium	Al %	0.040 max.	Tensile Strength in Mpa	450 min.
Copper	cu %	0.120 max.	Yield Strength in Mpa	240 min.
Iron	Fe %	Balance	Elongation in %	22 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.8872	DIN	Germany	Steel
16 Mo 5	STAS	Romania	Plate
245	BS	British	Casting
C 1	MSZ	Hungary	Steel
J12523	UNS	USA	Casting
G18Mo5	UNI	Italy	Casting
A356 2	ASTM	USA	Casting

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