



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	Normalising 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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.