

Material: DIN 1.0414

Standard Specification for Wire Rod for Cold Drawing

Group: Ferrous Mild Steel Alloys

Sub Group: DIN 1.0414 Wire Rod for Cold Drawing

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

Grade Belongs to the Industry: Cold Rolling and Rod

Chemical Composition		
Carbon	C %	0.180 - 0.230
Silicon	Si %	0.100 - 0.300
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Copper	Cu %	0.200 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	414 min.
Yield Strength in Mpa	276 min.
Elongation in %	24 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J02002	UNS	USA	Casting
1020	AISI	USA	Forging, Bar, Wire, and Shape
1.1137	EN	European Union	Cold Rolling and Rod
A216 WCB	ASTM	USA	Casting
1.0619	DIN	Germany	Casting
A352 LCA	ASTM	USA	Casting
A732 1A	ASTM	USA	Casting

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