

Material: EN 1.1137

Standard Specification for Non-Alloy Steel Rod for Drawing and/or Cold Rolling

Group: Ferrous Mild Steel Alloys

Sub Group: EN 1.1137 Non-Alloy Steel Rod for Drawing and/or Cold Rolling

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

Grade Belongs to the Industry: Cold Rolling and Rod

Chemical Composition			Heat Treatment	
Carbon	C %	0.180 - 0.230	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.300 max.		
Manganese	Mn %	0.300 - 0.500		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	0.100 max.		
Nickel	Ni %	0.100 max.		
Molybdenum	Mo %	0.050 max.		
Aluminium	Al %	0.010 max.	Mechanical Properties	
Copper	Cu %	0.150 max.	Tensile Strength in Mpa	414 min.
Cu+Ni+Cu	%+Ni %+Cu	0.300 max.	Yield Strength in Mpa	276 min.
Nitrogen	N %	0.007 max.	Elongation in %	24 min.
Cu+Sn	Cu %+Sn %	0.150 max.	Reduction of Area in %	-
Iron	Fe %	Balance	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J02002	UNS	USA	Casting
1.0414	DIN	Germany	Cold Rolling and Rod
1020	AISI	USA	Forging, Bar, Wire, and Shape
A216 WCB	ASTM	USA	Casting
1.0619	DIN	Germany	Casting
A352 LCA	ASTM	USA	Casting
A732 1A	ASTM	USA	Casting

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