

Material: JIS SUS 420J2

Standard Specification for G 4309 Martensitic stainless steel wires

Group: Ferrous Stainless Steel Alloys

Sub Group: JIS SUS 420J2 Martensitic Stainless Steel wires

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

Grade Belongs to the Industry: Forging

Chemical Composition		
Carbon	C %	0.260 - 0.400
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	12.000 - 14.000
Nickel	Ni %	0.600 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	540 - 930
Yield Strength in Mpa	225 min.
Elongation in %	12 min.
Reduction of Area in %	40 min.
Hardness in HRC	40 - 99
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4028	EN	European Union	Forging
420	AISI	USA	Bar, Wire, Shapes and Forging
30CH13	GOST	Russia	Bar, Wire, Shapes and Forging
2304	SS	Sweden	Bar, Wire, Shapes and Forging
X 30Cr13	UNI	Italy	Bar, Wire, Shapes and Forging
420 S 45	BS	British	Bar, Wire, Shapes and Forging
A743 CA20	ASTM	USA	Casting

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