

# Material: JIS G 3539 SWRCH 6A

## Standard Specification for Carbon Steel Wire Rods for Cold Heading and Cold Forging

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** JIS G 3539 SWRCH 6A Carbon Steel Wire Rods for Cold Heading and Cold Forging

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

**Grade Belongs to the Industry:** Wire Rod and Forging

Chemical Composition		
Carbon	C %	0.080 max.
Silicon	Si %	0.100 max.
Manganese	Mn %	0.600 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.035 max.
Aluminium	Al %	0.020 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Normalizing or Annealing or Hardening and Tempering

Mechanical Properties	
Tensile Strength in Mpa	294 min.
Yield Strength in Mpa	-
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in HRB	80 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SWCH 6A	JIS	Japan	Wire Rod and Forging
SWRCH6A	MS	Malaysia	Wire Rod and Forging
C2C	ISO	International	Wire Rod and Forging
C4C	ISO	International	Wire Rod and Forging
SWRCH6A	KS	Korea	Wire Rod and Forging
-	-	-	-
-	-	-	-

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