

# Material: JIS G 3539 SWCH 8A

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** JIS G 3539 SWCH 8A 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 %	0.100 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	290 min.
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	45 min.
Hardness in HRC	85 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SWRCH 8A	JIS	Japan	Wire Rod and Forging
SWRCH8A	MS	Malaysia	Wire Rod and Forging
C8C	ISO	International	Wire Rod and Forging
SWRCH8A	KS	Korea	Wire Rod and Forging
-	-	-	-
-	-	-	-
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