

# Material: ISO 4954 C17C

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ISO 4954 C17C 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 %	0.150 - 0.190
Silicon	Si %	0.100 max.
Manganese	Mn %	0.650 - 0.850
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Aluminium	Al %	0.020 - 0.060
Chromium	Cr %	0.300 max.
Copper	Cu %	0.300 max.
Molybdenum	Mo %	0.100 max.
Nickel	Ni %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	610 max.
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	56 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SWRCH 18A	JIS	Japan	Wire Rod and Forging
SWCH 18A	JIS	Japan	Wire Rod and Forging
SWRCH18A	MS	Malaysia	Wire Rod and Forging
SWRCH18A	KS	Korea	Wire Rod and Forging
-	-	-	-
-	-	-	-
-	-	-	-

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