

# Material: KS D 3592 SWRCH16A

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** KS D 3592 SWRCH16A 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 %	0.130 - 0.180
Silicon	Si %	0.100 max.
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.030 max.
Sulphur	S %	0.035 max.
Aluminium	Al %	0.020 min.
Chromium	Cr %	0.200 max.
Copper	Cu %	0.300 max.
Nickel	Ni %	0.200 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	550 max.
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	48 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SWRCH 16A	JIS	Japan	Wire Rod and Forging
SWCH 16A	JIS	Japan	Wire Rod and Forging
SWRCH16A	MS	Malaysia	Wire Rod and Forging
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India