



## Material - JIS G 3539 SWRCH 16A

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

**Group - Ferrous Mild Steel Alloys**

**Sub Group - JIS G 3539 SWRCH 16A 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			Heat Treatment			
Carbon	C %	0.130 - 0.180	As Raw or Normalizing or Annealing or Hardening and Tempering			
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.				
Iron	Fe %	Balance				
-	-	-	<b>Mechanical Properties</b>			
-	-	-				
-	-	-			Tensile Strength in Mpa	373 min.
-	-	-			Yield Strength in Mpa	-
-	-	-			Elongation in %	13 min.
-	-	-			Reduction of Area in %	-
-	-	-			Hardness in HRB	85 max.
-	-	-			Impact in Joule	-
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SWCH 16A	JIS	Japan	Wire Rod and Forging
SWRCH16A	MS	Malaysia	Wire Rod and Forging
SWRCH16A	KS	Korea	Wire Rod and Forging
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**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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