



## Material - JIS G 3539 SWCH 10R

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

**Group - Ferrous Mild Steel Alloys**

**Sub Group - JIS G 3539 SWCH 10R 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 %	0.080 - 0.130	As Raw or Normalizing or Annealing or Hardening and Tempering	
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			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 10R	JIS	Japan	Wire Rod and Forging
SWRM 10	KS	Korea	Wire Rod and Forging
SWRCH10R	KS	Korea	Wire Rod and Forging
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**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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