



Material - JIS G 3539 SWCH 12K

Standard Specification for Carbon Steel Wire Rods for Cold Heading and Cold Forging Group - Ferrous Mild Steel Alloys

Sub Group - JIS G 3539 SWCH 12K 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 %	0.100 - 0.150	As Raw or Normalizing or Annealing or Hardening and Tempering	
Silicon	Si %	0.100 - 0.350		
Manganese	Mn %	0.300 - 0.600		oaling or Hardoning and
Phosphorus	P %	0.030 max.		· ·
Sulphur	S %	0.035 max.		iig
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	-		Tensile Strength in Mpa	340 min.
-	-		Yield Strength in Mpa	•
-	-		Elongation in %	•
-	-	-	Reduction of Area in %	45 min.
-	-	-	Hardness in HRC	90 max.
-	-	-	Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
SWRCH 12K	JIS	Japan	Wire Rod and Forging	
SWRCH12K	MS	Malaysia	Wire Rod and Forging	
SWRCH12K	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.