



## Material - JIS G 3539 SWCH 22A

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

Sub Group - JIS G 3539 SWCH 22A 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 %	0.180 - 0.230	As Raw or Normalizing or Annealing or Hardening and Tempering	
Silicon	Si %	0.100 max.		
Manganese	Mn %	0.700 - 1.000		aling or Hardoning and
Phosphorus	P %	0.030 max.		· ·
Sulphur	S %	0.035 max.		
Aluminium	Al %	0.020 min.		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties	
-	-		Tensile Strength in Mpa	440 min.
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	45 min.
-	-	-	Hardness in HRC	98 max.
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
SWRCH 22A	JIS	Japan	Wire Rod and Forging	
SWRCH22A	MS	Malaysia	Wire Rod and Forging	
C20C	ISO	International	Wire Rod and Forging	
SWRCH22A	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

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