GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - JIS G 3539 SWCH 12A

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

Group - Ferrous Mild Steel Alloys

Sub Group - JIS G 3539 SWCH 12A 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 %	0.100 - 0.150
Silicon	Si %	0.100 max.
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.030 max.
Sulphur	S %	0.035 max.
Aluminium	Al %	0.020 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

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 12A	JIS	Japan	Wire Rod and Forging
SWRCH12A	MS	Malaysia	Wire Rod and Forging
SWRCH12A	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