



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - JIS G 3539 SWRCH 22A

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

Group - Ferrous Mild Steel Alloys

Sub Group - JIS G 3539 SWRCH 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		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Aluminium	Al %	0.020 min.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 441 min. Yield Strength in Mpa - Elongation in % 12 min. Reduction of Area in % - Hardness in HRB 88 max. Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SWCH 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

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.

ONE STOP SOLUTION FOR METAL PARTS