



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - JIS G 3539 SWRCH 20A

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

Group - Ferrous Mild Steel Alloys

Sub Group - JIS G 3539 SWRCH 20A 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 % | 0.300 - 0.600 | | |
| Phosphorus | P % | 0.030 max. | | |
| Sulphur | S % | 0.035 max. | | |
| Aluminium | Al % | 0.020 min. | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 373 min. Yield Strength in Mpa - Elongation in % 13 min. Reduction of Area in % - Hardness in HRB 85 max. Impact in Joule - | |
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| Cross Reference Table | | | |
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| Material | Standard | Country | Grade Belong to the Industry |
| SWCH 20A | JIS | Japan | Wire Rod and Forging |
| SWRCH20A | MS | Malaysia | Wire Rod and Forging |
| SWRCH20A | 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