

## Material: KS D 3592 SWRCH6R

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** KS D 3592 SWRCH6R 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 %  | 0.080 max. | As Raw or Normalizing or Annealing or Hardening and Tempering |          |
| Manganese            | Mn % | 0.600 max. |   |          |
| Phosphorus           | P %  | 0.040 max. |   |          |
| Sulphur              | S %  | 0.040 max. |   |          |
| Chromium             | Cr % | 0.200 max. |   |          |
| Copper               | Cu % | 0.300 max. |   |          |
| Nickel               | Ni % | 0.200 max. |   |          |
| Iron                 | Fe % | Balance    |   |          |
| -                    | -    | -          | Mechanical Properties   |          |
| -                    | -    | -          | Tensile Strength in Mpa                                       | 600 min. |
| -                    | -    | -          | Yield Strength in Mpa   | -        |
| -                    | -    | -          | Elongation in %   | 5 min.   |
| -                    | -    | -          | Reduction of Area in %  | -        |
| -                    | -    | -          | Hardness in BHN   | -        |
| -                    | -    | -          | Impact in Joule   | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| SWRCH 6R              | JIS      | Japan   | Wire Rod and Forging         |
| SWCH 6R               | JIS      | Japan   | Wire Rod and Forging         |
| SWRM 6                | KS       | Korea   | Wire Rod and Forging         |
| SWRMF 6               | KS       | Korea   | Wire Rod and Forging         |
| SWRM 6                | JIS      | Japan   | Wire Rod and Forging         |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)