



## Material - STAS T 25 NiCr 250

**Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant, for General Application**

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - STAS T 25 NiCr 250 Castings, Iron-Chromium-Nickel, Corrosion Resistant, for General Application**

**Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries**

**Grade Belongs to the Industry - Casting**

| Chemical Composition |      |                 | Heat Treatment               |  |                         |          |
|----------------------|------|-----------------|------------------------------|--|-------------------------|----------|
| Carbon               | C %  | 0.250 max.      | Solution Annealing           |  |                         |          |
| Silicon              | Si % | 1.000 - 2.500   |                              |  |                         |          |
| Manganese            | Mn % | 1.500 max.      |                              |  |                         |          |
| Phosphorus           | P %  | 0.035 max.      |                              |  |                         |          |
| Sulphur              | S %  | 0.030 max.      |                              |  |                         |          |
| Chromium             | Cr % | 23.000 - 27.000 |                              |  |                         |          |
| Nickel               | Ni % | 18.000 - 21.000 |                              |  |                         |          |
| Iron                 | Fe % | Balance         |                              |  |                         |          |
| -                    | -    | -               | <b>Mechanical Properties</b> |  |                         |          |
| -                    | -    | -               |                              |  | Tensile Strength in Mpa | 450 min. |
| -                    | -    | -               |                              |  | Yield Strength in Mpa   | 195 min. |
| -                    | -    | -               |                              |  | Elongation in %         | 30 min.  |
| -                    | -    | -               |                              |  | Reduction of Area in %  | -        |
| -                    | -    | -               |                              |  | Hardness in BHN         | -        |
| -                    | -    | -               |                              |  | Impact in Joule         | -        |
| -                    | -    | -               |                              |  | -                       | -        |

| Cross Reference Table |          |         |                                 |
|-----------------------|----------|---------|---------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry    |
| 1.4843                | DIN      | Germany | Round and Flat Wire             |
| SCS 18                | JIS      | Japan   | Centrifugal Cast, Steel, Pipes. |
| CH25N20               | GOST     | Russia  | Precision Alloys                |
| H23N18                | PN       | Poland  | Heat Resisting Steels           |
| SA-351 Grade CK20     | ASME     | USA     | Casting                         |
| A743 CK20             | ASTM     | USA     | Casting                         |
| A351 CH20             | ASTM     | USA     | Casting                         |

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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