



## Material - DIN 1.4843

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

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - DIN 1.4843 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          |         |
|----------------------|------|-------------|-------------------------|---------|
| Chromium             | Cr % | 25.000 max. | Solution Annealing      |         |
| Nickel               | Ni % | 20.000 max. |                         |         |
| Iron                 | Fe % | Balance     |                         |         |
| -                    | -    | -           |                         |         |
| -                    | -    | -           |                         |         |
| -                    | -    | -           |                         |         |
| -                    | -    | -           |                         |         |
| -                    | -    | -           |                         |         |
| -                    | -    | -           |                         |         |
| -                    | -    | -           |                         |         |
|                      |      |             | Mechanical Properties   |         |
| -                    | -    | -           | Tensile Strength in Mpa | 600 min |
| -                    | -    | -           | Yield Strength in Mpa   | -       |
| -                    | -    | -           | Elongation in %         | 8 min.  |
| -                    | -    | -           | Reduction of Area in %  | -       |
| -                    | -    | -           | Hardness in BHN         | -       |
| -                    | -    | -           | Impact in Joule         | -       |

| Cross Reference Table |          |         |                                 |
|-----------------------|----------|---------|---------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry    |
| SA-351 Grade CK20     | ASME     | USA     | Casting                         |
| SCS 18                | JIS      | Japan   | Centrifugal Cast, Steel, Pipes. |
| CH25N20               | GOST     | Russia  | Precision Alloys                |
| H23N18                | PN       | Poland  | Heat Resisting Steels           |
| T25 NiCr 250          | STAS     | Romania | 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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