

## Material - DIN GX 10 Ni 5

Standard Specification for Steel Castings, Ferritic and Martensitic, for Pressure-Containing and Other Applications, for Low-Temperature Service

**Group - Ferrous Mild Steel Alloys** 

Sub Group - DIN GX 10 Ni 5 Ferritic and Martensitic Steel Castings for Pressure-Containing and Low-Temperature Service

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Casting

| Chemical Composition |      |               | Heat Treatment                                    |           |
|----------------------|------|---------------|---|-----------|
| Carbon               | C %  | 0.060 - 0.120 |   |           |
| Silicon              | Si % | 0.600 max.    |   |           |
| Manganese            | Mn % | 0.500 - 0.800 | Normalising or Annealing or Hardening + Tempering |           |
| Phosphorus           | P %  | 0.025 max.    |   |           |
| Sulphur              | S %  | 0.020 max.    |   |           |
| Nickel               | Ni % | 4.500 - 5.500 |   |           |
| Iron                 | Fe % | Balance       |   |           |
| -                    | -    | -             |   | _         |
| -                    | -    | -             | Mechanical Properties                             |           |
| -                    | -    | -             | Tensile Strength in Mpa                           | 485 min.  |
| -                    | -    | -             | Yield Strength in Mpa                             | 275 min.  |
| -                    | -    | -             | Elongation in %                                   | 24 min.   |
| -                    | -    |               | Reduction of Area in %                            | 35 min.   |
| -                    | -    | -             | Hardness in BHN                                   | -         |
| -                    | -    | -             | Impac <mark>t in Joule</mark>                     | 20 J @ RT |

| Cross Reference Table |          |         |                              |  |
|-----------------------|----------|---------|------------------------------|--|
| Material              | Standard | Country | Grade Belong to the Industry |  |
| E2512                 | AISI     | USA     | Casting                      |  |
| Ao 10 Ni 20           | MSZ      | Hungary | Casting                      |  |
| 2512                  | SAE      | USA     | Steel                        |  |
| AM 8 Ni 18            | UNE      | Spain   | Casting                      |  |
| J41501                | UNS      | USA     | Casting                      |  |
| 1.5681                | DIN      | Germany | Casting                      |  |
| A757 B4N B4Q          | 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

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