



## Material - BDS GX2NiCrMo28-20-2

## **Standard Specification for Steel Castings for Pressure Purposes**

**Group - Ferrous Stainless Steel Alloys** 

Sub Group - BDS GX2NiCrMo28-20-2 Steel Castings for Pressure Purposes

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

**Grade Belongs to the Industry - Casting** 

| Chemical Composition |      |                 | Heat Treatment                                 |           |
|----------------------|------|-----------------|--|-----------|
| Carbon               | C %  | 0.030 max.      |  |           |
| Silicon              | Si % | 1.000 max.      | Normalizing or Quenching or Solution Annealing |           |
| Manganese            | Mn % | 2.000 max.      |  |           |
| Phosphorus           | P %  | 0.035 max.      |  |           |
| Sulphur              | S %  | 0.025 max.      |  |           |
| Chromium             | Cr % | 19.000 - 22.000 |  |           |
| Molybdenum           | Mo % | 2.000 - 2.500   |  |           |
| Nickel               | Ni % | 26.000 - 30.000 |  | -         |
| Copper               | Cu % | 2.000 max.      | Mechanical Properties                          |           |
| Nitrogen             | N %  | 0.200 max.      | Tensile Strength in Mpa                        | 430 - 630 |
| Iron                 | Fe % | Balance         | Yield Strength in Mpa                          | 190 min.  |
| -                    | -    | -               | Elongation in %                                | 30 min.   |
| -                    | -    | -               | Reduction of Area in %                         | -         |
| -                    | -    | -               | Hardness in BHN                                | -         |
| -                    | -    | -               | Impact in Joule                                | 60 J @ RT |

| Cross Reference Table |          |               |                              |  |
|-----------------------|----------|---------------|------------------------------|--|
| Material              | Standard | Country       | Grade Belong to the Industry |  |
| GX2NiCrMo28-20-2      | BS       | British       | Plate, Tubes and Forging     |  |
| GX2NiCrMo28-20-2      | ISO      | International | Casting                      |  |
| 1.4458                | ISO      | International | Casting                      |  |
| GX2NiCrMo28-20-2      | ONORM    | Australia     | Casting                      |  |
| 1.4458                | ONORM    | Australia     | Casting                      |  |
| 1.4458                | BDS      | Bulgaria      | Casting                      |  |
| 1.4458                | NBN      | Belgium       | 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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