

# Material: ISO GX2NiCrMo28-20-2

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ISO 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.      | Normalizing or Quenching or Solution Annealing                                                                                                                                                       |  |
| Silicon              | Si % | 1.000 max.      |                                                                                                                                                                                                      |  |
| 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.      |                                                                                                                                                                                                      |  |
| Nitrogen             | N %  | 0.200 max.      |                                                                                                                                                                                                      |  |
| Iron                 | Fe % | Balance         | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 430 - 630<br>Yield Strength in Mpa 190 min.<br>Elongation in % 30 min.<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule - |  |
| -                    | -    | -               |                                                                                                                                                                                                      |  |
| -                    | -    | -               |                                                                                                                                                                                                      |  |
| -                    | -    | -               |                                                                                                                                                                                                      |  |
| -                    | -    | -               |                                                                                                                                                                                                      |  |
| -                    | -    | -               |                                                                                                                                                                                                      |  |

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

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