

Material: DIN G X 5 CrNi 22-10

Standard Specification for High-Temperature Resisting CrNiMn Steel

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN G X 5 CrNi 22-10 High-Temperature Resisting CrNiMn Steel

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|-------------------------|----------|
| Carbon | C % | 0.070 max. | Solution Annealing | |
| Silicon | Si % | 0.500 - 1.200 | | |
| Manganese | Mn % | 1.500 - 2.000 | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.025 max. | | |
| Chromium | Cr % | 22.000 - 23.000 | | |
| Nickel | Ni % | 9.500 - 10.500 | | |
| Molybdenum | Mo % | 0.750 max. | | |
| Copper | Cu % | 0.300 max. | | |
| Iron | Fe % | Balance | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 485 min. |
| - | - | - | Yield Strength in Mpa | 205 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 |
| A743 CG12 | ASTM | USA | Casting |
| UNS J93001 | UNS | USA | Casting |
| 1.4947 | DIN | Germany | Casting |
| 3444 | IS | India | Casting |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

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