

Material: DIN GX 5 CrNiNb 19-11

Standard Specification for Austenitic and Austenitic-Ferritic Steel Grades Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN GX 5 CrNiNb 19-11 Austenitic and Austenitic-Ferritic Steel Grades Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | |
|----------------------|------|-----------------|
| Carbon | C % | 0.070 max. |
| Silicon | Si % | 1.500 max. |
| Manganese | Mn % | 1.500 max. |
| Phosphorus | P % | 0.040 max. |
| Sulphur | S % | 0.030 max. |
| Chromium | Cr % | 18.000 - 20.000 |
| Nickel | Ni % | 9.000 - 12.000 |
| Niobium | Nb % | 1.000 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment | |
|----------------|--------------------|
| | Solution Annealing |

| Mechanical Properties | |
|-------------------------|-----------|
| Tensile Strength in Mpa | 440 - 640 |
| Yield Strength in Mpa | 175 min. |
| Elongation in % | 25 min. |
| Reduction of Area in % | - |
| Hardness in BHN | - |
| Impact in Joule | 40 J @ RT |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 1.4552 | EN | European Union | Casting |
| 347 C 17 | BS | British | Casting |
| SCS 21 | JIS | Japan | Casting |
| SA-351 Grade CF8C | ASME | USA | Casting |
| A743 CF8C | ASTM | USA | Casting |
| A744 CF8C | ASTM | USA | Casting |
| A351 CH8C | ASTM | USA | Casting |

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