

Material: BS 310 C 40

Standard Specification for Austenitic Stainless Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: BS 310 C 40 Austenitic Stainless 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 % | 0.300 - 0.500 | Solution Annealing | |
| Silicon | Si % | 1.500 max. | | |
| Manganese | Mn % | 2.000 max. | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.040 max. | | |
| Chromium | Cr % | 24.000 - 27.000 | | |
| Nickel | Ni % | 19.000 - 22.000 | | |
| Molybdenum | Mo % | 1.500 max. | | |
| Iron | Fe % | Balance | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 450 min. |
| - | - | - | Yield Strength in Mpa | - |
| - | - | - | Elongation in % | 7 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| A351 HK30 | ASTM | USA | Casting |
| SA 351 HK30 | ASME | USA | Casting |
| A608 HK30 | ASTM | USA | Casting |
| F.8452 | UNE | Spain | Casting |
| G X 40 CrNi 26-20 | UNI | Italy | Casting |
| 422952 | CSN | Czech Republic | Casting |
| 393 G-X 40 CrNi 25 20 | SFS | Finland | Casting |

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