

Material: BS 3100 Grade 420C24

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: BS 3100 Grade 420C24 Steel Castings for General Engineering Purposes

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | |
|----------------------|------|-----------------|
| Carbon | C % | 0.250 max. |
| Silicon | Si % | 2.000 max. |
| Manganese | Mn % | 1.000 max. |
| Phosphorus | P % | 0.050 max. |
| Sulphur | S % | 0.050 max. |
| Chromium | Cr % | 12.000 - 16.000 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|--|
| As Cast or Annealing or Normalizing or Hardening and Tempering |

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 500 min. |
| Yield Strength in Mpa | 380 min. |
| Elongation in % | 12 min. |
| Reduction of Area in % | - |
| Hardness in BHN | 180 min. |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| Z 25C13-M | AFNOR NF | France | Casting |
| Z 30 C 13 M | AFNOR NF | France | Casting |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
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