



Material - DIN G24Mn6

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - DIN G24Mn6 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 % | 0.200 - 0.250 | Normalizing or Quenching or Solution Annealing | |
| Silicon | Si % | 0.600 max. | | |
| Manganese | Mn % | 1.500 - 1.800 | | |
| Phosphorus | P % | 0.020 max. | | |
| Sulphur | S % | 0.015 max. | | |
| Chromium | Cr % | 0.300 max. | | |
| Molybdenum | Mo % | 0.150 max. | | |
| Nickel | Ni % | 0.400 max. | | |
| Copper | Cu % | 0.300 max. | | |
| Vanadium | V % | 0.050 max. | | |
| Iron | Fe % | Balance | Mechanical Properties Tensile Strength in Mpa 600 - 800 Yield Strength in Mpa 400 min. Elongation in % 12 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 27 J @ RT | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| EN 10213 G24Mn6 | BS | British | Plate, Tubes and Forging |
| G24Mn6 | EN | European Union | Casting |
| G24Mn6 | AFNOR NF | France | Casting |
| G24Mn6 | UNI | Italy | Casting |
| G24Mn6 | PN | Poland | Casting |
| - | - | - | - |
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Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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