



Material - AFNOR NF G 12 MoCrV 5 2

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - EN G 12 MoCr 5 2 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 % | 0.100 - 0.150 | Normalizing or Quenching or Solution Annealing | |
| Silicon | Si % | 0.450 max. | | |
| Manganese | Mn % | 0.400 - 0.700 | | |
| Phosphorus | P % | 0.030 max. | | |
| Sulphur | S % | 0.020 max. | | |
| Chromium | Cr % | 0.300 - 0.500 | | |
| Molybdenum | Mo % | 0.400 - 0.600 | | |
| Nickel | Ni % | 0.400 max. | | |
| Copper | Cu % | 0.300 max. | | |
| Vanadium | V % | 0.220 - 0.300 | | |
| Tin | Sn % | 0.025 max. | Mechanical Properties Tensile Strength in Mpa 510 - 660 Yield Strength in Mpa 295 min. Elongation in % 17 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 27 J @ RT | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| EN 10213 G12MoCrV5-2 | BS | British | Plate, Tubes and Forging |
| G12MoCrV5-2 | ISO | International | Casting |
| 1.7720 | ISO | International | Casting |
| G 12 MoCrV 5 2 | CSN | Czech Republic | Casting |
| G 12 MoCrV 5 2 | EN | European Union | Casting |
| G 12 MoCrV 5 2 | SFS | Finland | Casting |
| G 12 MoCrV 5 2 | DIN | Germany | Casting |

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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