



Material - AFNOR NF G 17 CrMo 5-5

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - AFNOR NF G 17 CrMo 5-5 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 % | 0.150 - 0.200 | Normalising or Annealing or Hardening + Tempering | | | |
| Silicon | Si % | 0.600 max. | | | | |
| Manganese | Mn % | 0.500 - 1.000 | | | | |
| Phosphorus | P % | 0.025 max. | | | | |
| Sulphur | S % | 0.020 max. | | | | |
| Chromium | Cr % | 1.000 - 1.500 | | | | |
| Nickel | Ni % | 0.400 max. | | | | |
| Molybdenum | Mo % | 0.450 - 0.650 | | | | |
| Copper | Cu % | 0.300 max. | | | | |
| Vanadium | V % | 0.050 max. | | | | |
| Iron | Fe % | Balance | <th colspan="2">Mechanical Properties</th> | | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 490 - 690 | | |
| - | - | - | Yield Strength in Mpa | 315 min. | | |
| - | - | - | Elongation in % | 20 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 |
| SA-217 Grade WC6 | ASME | USA | Casting |
| J12072 | UNS | USA | Casting |
| A426 Grade CP11 | ASTM | USA | Steel |
| 621 | BS | British | Plate |
| G S 17 CrMo 5-5 | DIN | Germany | Casting |
| G 17 CrMo 5-5 | EN | European Union | Casting |
| A217 Grade WC6 | ASTM | USA | 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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