



Material - DIN G X 12 CrMo 5

Standard Specification for Steel Castings for Petroleum and Natural Gas Plants

Group - Ferrous Mild Steel Alloys

Sub Group - DIN G X 12 CrMo 5 Steel Castings for Petroleum and Natural Gas Plants

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

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|---|-----------|
| Carbon | C % | 0.080 - 0.150 | Normalising or Annealing or Hardening + Tempering | |
| Silicon | Si % | 0.300 - 0.500 | | |
| Manganese | Mn % | 0.400 - 0.700 | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.035 max. | | |
| Chromium | Cr % | 4.500 - 5.500 | | |
| Molybdenum | Mo % | 0.450 - 0.550 | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 640 - 840 |
| - | - | - | Yield Strength in Mpa | 410 min. |
| - | - | - | Elongation in % | 18 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | 34 J @ RT |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| A426 Grade CP5 | ASTM | USA | Casting |
| G S 12 CrMo 19-5 | DIN | Germany | Casting |
| G X 15 CrMo 5 | EN | European Union | Casting |
| SCPH 61 | JIS | Japan | Casting |
| 1.7363 | DIN | Germany | Casting |
| A426 Grade CP5 | ASTM | USA | Casting |
| A217 Grade C5 | 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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