



**GRAVITY CAST PVT. LTD.**  
GRAVITY GROUP OF COMPANIES

## Material - BS EN 10213 G17NiCrMo13-6

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10213 G17NiCrMo13-6 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry - Plate, Tubes and Forging

| Chemical Composition |      |               | Heat Treatment   |  |
|----------------------|------|---------------|--|--|
| Carbon               | C %  | 0.150 - 0.190 | Normalizing or Quenching or Solution Annealing   |  |
| Silicon              | Si % | 0.500 max.    |  |  |
| Manganese            | Mn % | 0.550 - 0.800 |  |  |
| Phosphorus           | P %  | 0.015 max.    |  |  |
| Sulphur              | S %  | 0.015 max.    |  |  |
| Chromium             | Cr % | 1.300 - 1.800 |  |  |
| Molybdenum           | Mo % | 0.450 - 0.600 |  |  |
| Nickel               | Ni % | 3.000 - 3.500 |  |  |
| Copper               | Cu % | 0.300 max.    |  |  |
| Vanadium             | V %  | 0.050 max.    |  |  |
| Iron                 | Fe % | Balance       | <b>Mechanical Properties</b><br>Tensile Strength in Mpa      600 min.<br>Yield Strength in Mpa      -<br>Elongation in %      -<br>Reduction of Area in %      -<br>Hardness in BHN      -<br>Impact in Joule      - |  |
| -                    | -    | -             |  |  |
| -                    | -    | -             |  |  |
| -                    | -    | -             |  |  |
| -                    | -    | -             |  |  |
| -                    | -    | -             |  |  |

| Cross Reference Table |          |               |                              |
|-----------------------|----------|---------------|------------------------------|
| Material              | Standard | Country       | Grade Belong to the Industry |
| G17NiCrMo13-6         | ISO      | International | Casting                      |
| 1.6781                | ISO      | International | Casting                      |
| A 352 Grade LC2-1     | ASTM     | USA           | Casting                      |
| A 352 J42215          | ASTM     | USA           | Casting                      |
| G 17 NiCrMo13 6       | ONORM    | Australia     | Casting                      |
| G 17 NiCrMo13 6       | NBN      | Belgium       | Casting                      |
| G 17 NiCrMo13 6       | BDS      | Bulgaria      | 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](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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