

Material: ONORM G 17 NiCrMo13 6

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: ONORM G 17 NiCrMo13 6 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | |
|----------------------|------|---------------|
| Carbon | C % | 0.150 - 0.190 |
| 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 |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|--|
| Normalizing or Quenching or Solution Annealing |

| Mechanical Properties | |
|-------------------------|-----------|
| Tensile Strength in Mpa | 750 - 900 |
| Yield Strength in Mpa | 600 min. |
| Elongation in % | 15 min. |
| Reduction of Area in % | - |
| Hardness in BHN | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|------------------------|----------|---------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| EN 10213 G17NiCrMo13-6 | BS | British | Plate, Tubes and Forging |
| 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 | NBN | Belgium | Casting |
| G 17 NiCrMo13 6 | BDS | Bulgaria | Casting |

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