

## Material: SFS 369 G-17 CrMo 5-5

### Standard Specification for Alloy Steel Casting

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** SFS 369 G-17 CrMo 5-5 Alloy Steel Casting

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

**Grade Belongs to the Industry:** Casting

| Chemical Composition |      |               | Heat Treatment                                    |          |
|----------------------|------|---------------|---------------------------------------------------|----------|
| Carbon               | C %  | 0.200 max.    | Normalizing or Annealing or Hardening + Tempering |          |
| Silicon              | Si % | 0.600 max.    |                                                   |          |
| Manganese            | Mn % | 0.500 - 0.800 |                                                   |          |
| Phosphorus           | P %  | 0.040 max.    |                                                   |          |
| Sulphur              | S %  | 0.040 max.    |                                                   |          |
| Chromium             | Cr % | 1.000 - 1.500 |                                                   |          |
| Nickel               | Ni % | 0.400 max.    |                                                   |          |
| Molybdenum           | Mo % | 0.450 - 0.550 |                                                   |          |
| Copper               | Cu % | 0.400 max.    | Mechanical Properties                             |          |
| Iron                 | Fe % | Balance       | Tensile Strength in Mpa                           | 485 min. |
| -                    | -    | -             | Yield Strength in Mpa                             | 310 min. |
| -                    | -    | -             | Elongation in %                                   | 22 min.  |
| -                    | -    | -             | Reduction of Area in %                            | 35 min.  |
| -                    | -    | -             | Hardness in BHN                                   | -        |
| -                    | -    | -             | Impact in Joule                                   | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| J12073                | UNS      | USA     | Casting                      |
| 621                   | BS       | British | Plate                        |
| A541 G. 11 Class 4    | ASTM     | USA     | Forging                      |
| G 17 CrMo 5-5         | UNI      | Italy   | Casting                      |
| A217 WC11             | ASTM     | USA     | Casting                      |
| A217 WC6              | ASTM     | USA     | Casting                      |
| A356 6                | ASTM     | USA     | Casting                      |

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