

# Material: AS 2074/H2A

## Standard Specification for Steel Castings for General Engineering Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** AS 2074/H2A Steel Castings for General Engineering Purposes

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

**Grade Belongs to the Industry:** Casting

| Chemical Composition |      |                | Heat Treatment  |  |
|----------------------|------|----------------|---|--|
| Carbon               | C %  | 0.200 max.     | As Cast or Annealing or Normalizing or Hardening and Tempering  |  |
| Silicon              | Si % | 1.000 max.     |   |  |
| Manganese            | Mn % | 0.300 - 0.700  |   |  |
| Phosphorus           | P %  | 0.040 max.     |   |  |
| Sulphur              | S %  | 0.040 max.     |   |  |
| Chromium             | Cr % | 8.000 - 10.000 |   |  |
| Molybdenum           | Mo % | 0.900 - 1.200  |   |  |
| Nickel               | Ni % | 0.400 max.     |   |  |
| Copper               | Cu % | 0.300 max.     |   |  |
| Iron                 | Fe % | Balance        |   |  |
| -                    | -    | -              | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 620 min.<br>Yield Strength in Mpa 415 min.<br>Elongation in % 13 min.<br>Reduction of Area in % -<br>Hardness in BHN 179 - 229<br>Impact in Joule - |  |
| -                    | -    | -              |   |  |
| -                    | -    | -              |   |  |
| -                    | -    | -              |   |  |
| -                    | -    | -              |   |  |
| -                    | -    | -              |   |  |
| -                    | -    | -              |   |  |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| B6                    | BS       | British | Casting                      |
| 629                   | BS       | British | Casting                      |
| B4                    | BS       | British | Casting                      |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

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