

# Material: ASTM B 240 AC41A

## Standard Specification For Zinc and Zinc Alloy Castings

**Group:** Non-Ferrous Zinc Alloys

**Sub Group:** ASTM B 240 AC41A Zinc and Zinc Alloy Castings

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

**Grade Belongs to the Industry:** Ingot and Casting

| Chemical Composition |      |               | Heat Treatment                                                                                                                                                                                                  |  |
|----------------------|------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Aluminium            | Al % | 3.900 - 4.300 | As-Cast                                                                                                                                                                                                         |  |
| Copper               | Cu % | 0.700 - 1.100 |                                                                                                                                                                                                                 |  |
| Magnesium            | Mg % | 0.035 - 0.060 |                                                                                                                                                                                                                 |  |
| Lead                 | Pb % | 0.004 max.    |                                                                                                                                                                                                                 |  |
| Cadmium              | Cd % | 0.003 max.    |                                                                                                                                                                                                                 |  |
| Tin                  | Sn % | 0.0015 max.   |                                                                                                                                                                                                                 |  |
| Iron                 | Fe % | 0.035 max.    |                                                                                                                                                                                                                 |  |
| Nickel               | Ni % | 0.020 max.    |                                                                                                                                                                                                                 |  |
| Silicon              | Si % | 0.035 max.    |                                                                                                                                                                                                                 |  |
| Zinc                 | Zn % | Balance       | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 330 min.<br>Yield Strength in Mpa 250 min.<br>Elongation in % 5 min.<br>Reduction of Area in % -<br>Hardness in HB 92 min.<br>Impact in Joule 58 J @ RT |  |
| -                    | -    | -             |                                                                                                                                                                                                                 |  |
| -                    | -    | -             |                                                                                                                                                                                                                 |  |
| -                    | -    | -             |                                                                                                                                                                                                                 |  |
| -                    | -    | -             |                                                                                                                                                                                                                 |  |
| -                    | -    | -             |                                                                                                                                                                                                                 |  |
| -                    | -    | -             |                                                                                                                                                                                                                 |  |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| ZP5                   | DIN      | Germany | Casting                      |
| Alloy B               | BS       | British | Casting                      |
| G-ZnAl4Cu1            | UNI      | Italy   | Ingot                        |
| ZnAl4Cu1              | UNE      | Spain   | Ingot                        |
| ZnAl4Cu1              | NS       | Norway  | Ingot                        |
| ZnAl4Cu1              | SS       | Sweden  | Ingot                        |
| 2.2141                | DIN      | Germany | Ingot and Casting            |

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)