

## Material - ASTM B240 ZA12

**Standard Specification for Zinc and Zinc-Aluminum (ZA) Alloys in Ingot Form for Foundry and Die Castings**

**Group - Non-Ferrous Zinc Alloy**

**Sub Group - ASTM B240 Zinc and Zinc-Aluminum (ZA) Alloys in Ingot Form for Foundry and Die 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 % | 10.800 - 11.500 | As-Cast or Aging        |             |
| Cadmium              | Cd % | 0.005 max.      |                         |             |
| Copper               | Cu % | 0.500 - 1.200   |                         |             |
| Iron                 | Fe % | 0.050 max.      |                         |             |
| Magnesium            | Mg % | 0.020 - 0.030   |                         |             |
| Lead                 | Pb % | 0.005 max.      |                         |             |
| Tin                  | Sn % | 0.002 max.      |                         |             |
| Zinc                 | Zn % | Balance         |                         |             |
| -                    | -    | -               | Mechanical Properties   |             |
| -                    | -    | -               | Tensile Strength in Mpa | 276 - 404   |
| -                    | -    | -               | Yield Strength in Mpa   | 211 - 320   |
| -                    | -    | -               | Elongation in %         | 1 - 7       |
| -                    | -    | -               | Reduction of Area in %  | -           |
| -                    | -    | -               | Hardness in HB          | 89 - 100    |
| -                    | -    | -               | Impact in Joule         | 25 - 29 @RT |

| Cross Reference Table |          |               |                              |
|-----------------------|----------|---------------|------------------------------|
| Material              | Standard | Country       | Grade Belong to the Industry |
| ZA-12                 | ANSI/AA  | USA           | Casting                      |
| B86 ZA12              | ASTM     | USA           | Casting                      |
| ZP1110                | ISO      | International | Casting                      |
| ZP12                  | ISO      | International | Casting                      |
| Z35631                | UNS      | USA           | Casting                      |
| Z35633                | UNS      | USA           | Casting                      |
| -                     | -        | -             | -                            |

**For any further inquiries, please do not hesitate to contact us. You may visit our website at [AMTECH TECHNOCAST PVT. LTD.](http://AMTECH TECHNOCAST PVT. LTD.), call us at [+91 9879817994](tel:+919879817994), or email us at [manish@amtechtechnocast.com](mailto:manish@amtechtechnocast.com)**

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