

# Material: ANSI/AA ZA-8

## Specification Standards for Die Castings

**Group:** Non-Ferrous Zinc Alloy

**Sub Group:** ANSI/AA for Die Castings

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

**Belongs to the Industry:** Casting

| Chemical Composition |      |               | Heat Treatment          |           |
|----------------------|------|---------------|-------------------------|-----------|
| Aluminium            | Al % | 8.000 - 8.800 | As-Cast or Aging        |           |
| Magnesium            | Mg % | 0.010 - 0.030 |                         |           |
| Copper               | Cu % | 0.800 - 1.300 |                         |           |
| Iron                 | Fe % | 0.075 max.    |                         |           |
| Lead                 | Pb % | 0.006 max.    |                         |           |
| Cadmium              | Cd % | 0.006 max.    |                         |           |
| Tin                  | Sn % | 0.003 max.    |                         |           |
| Zinc                 | Zn % | Balance       |                         |           |
| -                    | -    | -             | Mechanical Properties   |           |
| -                    | -    | -             | Tensile Strength in Mpa | 372 min.  |
| -                    | -    | -             | Yield Strength in Mpa   | 283 - 296 |
| -                    | -    | -             | Elongation in %         | 6 - 10    |
| -                    | -    | -             | Reduction of Area in %  | -         |
| -                    | -    | -             | Hardness in HB          | 100 - 106 |
| -                    | -    | -             | Impact in Joule         | 32 - 48   |

| Cross Reference Table |          |               |                              |
|-----------------------|----------|---------------|------------------------------|
| Material              | Standard | Country       | Grade Belong to the Industry |
| B86 ZA-8              | ASTM     | USA           | Casting                      |
| ZP8                   | ISO      | International | Casting                      |
| ZP0810                | ISO      | International | Casting                      |
| Z35636                | UNS      | USA           | Casting                      |
| Z35638                | UNS      | USA           | Casting                      |
| -                     | -        | -             | -                            |
| -                     | -        | -             | -                            |

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