

## Material: UNS C87600

### Standard Specification for Silicon Brass Ingots and Castings

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** UNS Silicon Brass Ingots and Castings

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

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

| Chemical Composition |      |               | Heat Treatment                        |          |
|----------------------|------|---------------|---------------------------------------|----------|
| Iron                 | Fe % | 0.200 max.    | Normalizing or Annealing or Tempering |          |
| Manganese            | Mn % | 0.250 max.    |                                       |          |
| Lead                 | Pb % | 0.090 max.    |                                       |          |
| Silicon              | Si % | 3.500 - 4.500 |                                       |          |
| Zinc                 | Zn % | 4.000 - 7.000 |                                       |          |
| Copper               | Cu % | 88.000 min.   |                                       |          |
| -                    | -    | -             | <b>Mechanical Properties</b>          |          |
| -                    | -    | -             |                                       |          |
| -                    | -    | -             |                                       |          |
| -                    | -    | -             |                                       |          |
| -                    | -    | -             |                                       |          |
| -                    | -    | -             |                                       |          |
| -                    | -    | -             |                                       |          |
| -                    | -    | -             |                                       |          |
| -                    | -    | -             |                                       |          |
| -                    | -    | -             |                                       |          |
| -                    | -    | -             |                                       |          |
|                      |      |               | Tensile Strength in Mpa               | 414 min. |
|                      |      |               | Yield Strength in Mpa                 | 207 min. |
|                      |      |               | Elongation in %                       | 16 min.  |
|                      |      |               | Reduction of Area in %                | -        |
|                      |      |               | Hardness in BHN                       | -        |
|                      |      |               | Impact in Joule                       | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| 11109 Grade 2         | IS       | India   | Ingot and Casting            |
| SB-584 C87600         | ASME     | USA     | Casting                      |
| B198-13C              | ASTM     | USA     | Casting                      |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

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