

## Material: IS 11109 Grade 3

### Standard Specification for Silicon Brass Ingots and Castings

**Group:** Non-Ferrous Copper Alloy

**Sub Group:** IS 11109 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               |   |
|----------------------|------|-----------------|------------------------------|---|
| Lead                 | Pb % | 0.400 max.      | As-Cast                      |   |
| Iron                 | Fe % | 0.300 max.      |                              |   |
| Aluminium            | Al % | 0.050 max.      |                              |   |
| Silicon              | Si % | 3.900 - 4.700   |                              |   |
| Other                | Ot%  | 0.500 max.      |                              |   |
| Copper               | Cu % | 80.000 - 83.000 |                              |   |
| Zinc                 | Zn % | Balance         |                              |   |
| -                    | -    | -               | <b>Mechanical Properties</b> |   |
| -                    | -    | -               |                              |   |
| -                    | -    | -               |                              |   |
| -                    | -    | -               |                              |   |
| -                    | -    | -               |                              |   |
| -                    | -    | -               |                              |   |
| -                    | -    | -               |                              |   |
| -                    | -    | -               |                              |   |
|                      |      |                 | Tensile Strength in Mpa      | - |
|                      |      |                 | Yield Strength in Mpa        | - |
|                      |      |                 | Elongation in %              | - |
|                      |      |                 | Reduction of Area in %       | - |
|                      |      |                 | Hardness in BHN              | - |
|                      |      |                 | Impact in Joule              | - |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

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