



## Material - AS/NZS 1565 958C

### Standard Specification for Copper and Copper Alloys - Ingots and Castings

Group - Non-Ferrous Copper Alloy

Sub Group - AS/NZS 1565 Copper and Copper Alloys - 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  |  |
|----------------------|------|---------------|---|--|
| Aluminium            | Al % | 8.500 - 9.500 | As-Cast   |  |
| Iron                 | Fe % | 3.500 - 4.500 |   |  |
| Magnesium            | Mg % | 0.050 max.    |   |  |
| Manganese            | Mn % | 0.800 - 1.500 |   |  |
| Nickel               | Ni % | 4.000 - 5.000 |   |  |
| Lead                 | Pb % | 0.050 max.    |   |  |
| Silicon              | Si % | 0.100 max.    |   |  |
| Tin                  | Sn % | 0.100 max.    |   |  |
| Zinc                 | Zn % | 0.500 max.    |   |  |
| Copper               | Cu % | 79.000 min.   |   |  |
| -                    | -    | -             | <b>Mechanical Properties</b><br>Tensile Strength in Mpa   590 min.<br>Yield Strength in Mpa   240 min.<br>Elongation in %   15 min.<br>Reduction of Area in %   -<br>Hardness in HB   140 min.<br>Impact in Joule   - |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |

| Cross Reference Table |          |               |                              |
|-----------------------|----------|---------------|------------------------------|
| Material              | Standard | Country       | Grade Belong to the Industry |
| AB2                   | BS       | British       | Ingot and Casting            |
| C95810                | AS       | Australia     | Ingot and Casting            |
| CuAl10Fe5Ni5          | ISO      | International | Ingot and Casting            |
| -                     | -        | -             | -                            |
| -                     | -        | -             | -                            |
| -                     | -        | -             | -                            |
| -                     | -        | -             | -                            |

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.