

# ATLAS BALL & BEARING CO. LIMITED

## BRASS BALL DATA SHEET

Attributes Known as common brass, has good corrosion resistance and fair tensile strength.

Specification with equivalents

|        |                |
|--------|----------------|
| BS EN  | CuZn37 CW 508L |
| Old BS | CZ108          |
| DIN    | CuZn37         |
| UNS    | C27200         |

### Chemical Analysis %

|    |           |    |         |
|----|-----------|----|---------|
| Cu | 62.0-64.0 | Ni | 0.3 max |
| Al | 0.05 max  | Pb | 0.1 max |
| Fe | 0.1 max   | Sn | 0.1 max |
| Zn | Rem.      |    |         |

Typical uses/applications Non return/check valves, electrical conductors

Grades available G200, G500, G1000

### Mechanical/physical properties

|                       |                                       |
|-----------------------|---------------------------------------|
| Hardness              | 120-160 HB                            |
| Tensile strength      | 275 Mpa                               |
| Modulus of Elasticity | 103.4 Gpa                             |
| Thermal conductivity  | 116 W/m.K at 20° C                    |
| Thermal expansion     | 20.5x10 <sup>-6</sup> /°C at 20-300°C |
| Specific gravity      | 8.44 g/cm <sup>3</sup>                |
| Melting Point         | 916°C                                 |
| Magnetic properties   | Non magnetic                          |

Whilst every care has been taken we cannot accept liability for any errors contained within this data sheet.

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