



MATERIAL TECHNICAL DATA SHEET

1. Material Designation

Material Name **CuproB2**
Symbol **CuBe2**
Number **CW101C**
Reference Specification: **TS EN 12420, TS EN 12165, TS EN 12163**

2. Composition %

| Element | Cu | Be | Co | Fe | Ni | Other | | | | | Density g/cm ³ , approx. |
|--------------|------|-----|-----|-----|-----|-------|--|--|--|--|---|
| min. % | Rest | 1,8 | - | - | - | - | | | | | 8,3 |
| max. % | - | 2,1 | 0,3 | 0,2 | 0,3 | 0,5 | | | | | |
| nominal %(*) | Rest | 2 | - | - | - | - | | | | | |

3. Mechanical Properties

| Specification | Material condition | Conductivity (%IACS) min. | Hardness (HB30) min. | Tensile strength, Rm (N/mm ²) min. | 0,2% Proof strength, Rp0,2 (N/mm ²) min. | Elongation A % min. |
|---------------|--------------------|---------------------------------|----------------------------|--|---|------------------------|
| TS EN 12163 | R1150 | 26 | - | 1150 | 1000 | 2 |
| TS EN 12163 | H340 | 26 | 340 | - | - | - |
| TS EN 12163 | R1300 | 26 | - | 1300 | 1100 | 2 |
| TS EN 12163 | H350 | 26 | 350 | - | - | - |
| © FM (**) | | 22 | 345 | | | |

(*) Fine Metal nominal casting values

(**) Fine Metal nominal production values