

Trade name | CCNB

Standards

| Material No. | EN Material No. | EN Designation | UNS       |
|--------------|-----------------|----------------|-----------|
| ≈2.1285      | CW103C          | CuCo1Ni1Be     | C17500/10 |
| RWMA         |                 |                |           |
| Class 3      |                 |                |           |

Description

CuCo1Ni1Be is a low-contained copper alloy and is thermally aged.

Special properties

Good mechanical properties and a high thermal and electrical conductivity. High strength.

Chemical Composition

| Ni %      | Cu % | Co %      | Fe %   | Be %      |
|-----------|------|-----------|--------|-----------|
| 0.80-1.30 | Rest | 0.80-1.30 | ≤ 0.20 | 0.40-0.70 |

Mechanical Properties  
20°C

| Hardness HB 30<br>≤ HB | 0.2% Yield strength R <sub>p</sub><br>≥ N/mm <sup>2</sup> | Tensile strength R <sub>m</sub><br>N/mm <sup>2</sup> | Elongation A <sub>5</sub><br>≥ % | Modulus of elasticity<br>kN/mm <sup>2</sup> |
|------------------------|---|--|----------------------------------|---|
| 280                    | 550   | 680-810  | 8                                | 135   |


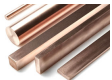




Physical Properties 20°C

| Density<br>g/cm <sup>3</sup> | Specific heat capacity<br>J/kg K | Thermal conductivity<br>W/m K | Electrical conductivity<br>MS/m |
|------------------------------|----------------------------------|-------------------------------|---------------------------------|
| 8.85                         | 420                              | 230-250                       | ≥ 25                            |

Application

Aluminum die-casting, mould construction, welding technology

Available forms for  
≈2.1285 / CuCo1Ni1Be

| Sheets/Plates   | Bars  | Wire  | Tubes/Pipes  | Forged / cast parts   | Finished part (drawing)   |
|---|---|---|--|---|---|
|  |  |  |  |  |  |