



BM CUBEX 2

Comparable standards

| Werkstoff No. | EN |
|---------------|-------------|
| DIN 17672 | Ube2/C17200 |

Chemical composition (%)

| BM CUBEX 2 | Be | Co+Ni | Others | Cu |
|--------------------|-----|-------|----------|-----------|
| Approx. Analysis % | 2.0 | 0.50 | 0.50 max | Remaining |

Material properties : Hardness is the highest copper alloy. 40 - 41 RC is reached. Optionally, case hardened or solution obtained condition (20 - 22 RC) will be delivered.

Usage Areas

- In fast moving areas to be cool in plastic molding, base plates in plastic bottles, the throat slitting, hot runner systems for internal Finn resolved.
- Butt welding (welding wheels, chain supply)
- The Safety in the Magnetic materials for that and sparking.

Heat Treatment

370 – 450 °C at temperatures between 2 or 4 time

Mechanical Properties

| | HB | 340-390 |
|------------------------------|--------------------|-----------|
| Hardness | | |
| Tensile Strength | N/mm ² | 1100-1300 |
| Yield Strength | N/mm ² | 1000 |
| Elongation L = 5D | % | 4-5 |
| Modulus of Elasticity(20 °C) | Kn/mm ² | 128 |

Physical Properties

| | | |
|----------------------------------|----------------------|-----------------------|
| Electrical Conductivity | % | 22 |
| Coefficient of Thermal Expansion | 1/K | 17.5*10 ⁻⁶ |
| Thermal Conductivity | (W/mK) | 106 |
| Density | (g/cm ³) | 8.30 |