

Material Data Sheet



BÖGRA - F45

CuZn37Al1-C

| Chemical Composition [wt%] | |
|----------------------------|-----------|
| Cu | remainder |
| Zn | 37,0 |
| Al | 1,0 |
| Ni | <2,0 |
| Si | <0,6 |

Material Designation

Bögra: **F45** according to Production Specification BT-F45-352

DIN: Complies with CuZn37Al1-C according to DIN EN 1982:2008

Material-No.

CC766S (2.0595) according to DIN 1709

Supplied as

- Gravity Die-Castings

Applications

Constructional material for mechanical engineering, electrical engineering, precision engineering, components for high-speed printing machines and housings of fittings that are subject to high gas and water pressures. Highly suitable for low-temperature components. A material that is typified by good casting qualities, high strength and high ductility.

| Physical properties (standard values) | | |
|---------------------------------------|--------------------------------|-----|
| Condition | | GM |
| Density | ρ [kg/dm ³] | 8,5 |
| Coefficient of thermal expansion | α [$\cdot 10^{-6}$ /K] | 19 |
| Electrical conductivity | κ [MS/m] | 12 |
| Modulus of elasticity | E [kN/mm ²] | 100 |

| Mechanical properties (standard values) | | |
|---|--|----------|
| Condition | | GM |
| Brinell Hardness | HBW | Min. 105 |
| 0,2% - proofstress | R _{p0,2} [N/mm ²] | Min. 170 |
| Tensile strength | R _m [N/mm ²] | Min. 450 |
| Elongation | A [%] | 25 |
| Compressive strength | R _d [N/mm ²] | - |
| Max. loading pressure | p _{zul.} [N/mm ²] | - |

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