

Material Data Sheet



BÖGRA - F38

CuZn48-C



Chemical Composition [wt%]	
Cu	remainder
Zn	47,8
Al	0,2

Material Designation

Bögra: **F38** according to Production-Specification BT-F38-351 lead free

DIN: Not standardised

Material-No.

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Supplied as

- Gravity Die-Castings

Applications

BÖGRA-F38 is a special brass with good electrical conductivity. It is used for current-carrying, wearing parts in the electrical and plating industries. This material is ideal for polishing or painting and for plating with other metals, such as chromium, nickel, silver or gold to make the surface more wear resistant or to improve the electrical conductivity.

Physical properties (standard values)			
Condition		GC	GM
Density	ρ [kg/dm ³]		8,5
Coefficient of thermal expansion	α [*10 ⁻⁶ /K]		20
Electrical conductivity	κ [MS/m]		20
Modulus of elasticity	E [kN/mm ²]		80

Mechanical properties (standard values)			
Condition		GC	GM
Brinell Hardness	HBW		Min. 100
0,2% - proofstress	R_{p0,2} [N/mm ²]		Min. 70
Tensile strength	R_m [N/mm ²]		Min. 470
Elongation	A [%]		30
Compressive strength	R_d [N/mm ²]		-
Max. loading pressure	p_{zul.} [N/mm ²]		-

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