Material Data Sheet



BÖGRA - F45

CuZn37AI1-C

Chemical Composition [wt%]			
Cu	remainder		
Zn	34,6		
Al	1,1		
Ni	<2,0		

Material Designation

Bögra: F45 according to Production-

Specification BT-F45-352

DIN: Complies with CuZn37Al1-C

according to DIN EN 1982:2017

Material-No.

CC766S (formerly 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		GC	GM		
Density	ρ [kg/dm³]		8,5		
Coefficient of thermal expansion	α [*10 ⁻⁶ /K]		19		
Electrical conductivity	κ [MS/m]		8,8		
Modulus of elasticity	E [kN/mm²]		100		

Mechanical properties (standard values)					
Condition	า	GC	GM		
Brinell Hardness	HBW		Min. 105		
0,2% - proofstress	Rp _{0,2} [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/mm²]		-		

This data-sheet is for your general information only and is not subject to revision. No claims can be derived from it unless there is evidence of intent or gross negligence. The data given are no warranty that product is of a specified quality.