Material Data Sheet

BÖGRA – Ms63

CuZn38Al-C

Chemical Composition [wt%]	
Cu	remainder
Zn	36,9
Al	0,5
Ni	<1,0

Material Designation

Bögra: **Ms63** according to Production-Specification BT-Ms63-325 lead free

DIN: Complies with CuZn38Al-C according to DIN EN 1982:2017

Material-No.

CC767S (formerly 2.0591 according to DIN 1709)

Supplied as

- Gravity Die-Castings

Applications

Readily castable, constructional material with good atmospheric corrosion resistance. In gravity die casting, this alloy leads to very high dimensional precision and exact shaping. The gold-like appearance of the material and good paintability make it particularly suitable for use in the building components and ornamentation industry and not least because of its insensitivity to atmospheric and mineral influences.

Physical properties (standard values)			
Condition		GC	GM
Density	ρ [kg/dm³]		8,5
Coefficient of thermal expansion	α [*10^{-6}/K]		20
Electrical conductivity	κ [MS/m]		14
Modulus of elasticity	E [kN/mm²]		95

Mechanical properties (standard values)			
Condition		GC	GM
Brinell Hardness	HBW		Min. 75
0,2% - proofstress	$Rp_{0,2}$ [N/mm²]		Min. 130
Tensile strength	R_m [N/mm²]		Min. 380
Elongation	A [%]		30
Compressive strength	R_d [N/mm²]		-
Max. loading pressure	$p_{zul.}$ [N/mm²]		-