

# Material Data Sheet



## BÖGRA - TO

*CuZn16Si4-C*

Chemical Composition [wt%]	
Cu	remainder
Zn	14,0
Si	4,0
Ni	<1,0
Pb	<0,8
Al	<0,1

### Material Designation

Bögra: **TO** according to Production-Specification BT-TO-390  
 DIN: Complies with CuZn16Si4-C according to DIN EN 1982:2017

### Material-No.

CC761S (formerly 2.0492 according to DIN 1709)

### Supplied as

- Gravity Die-Castings

### Applications

Constructional material with excellent casting properties, good corrosion and saltwater resistance. It is especially suitable for complex castings with not too great wall thicknesses.

The material is readily chromium or nickel plated and has good soft and hard solderability. Good machinability. The finest threads can be cut with perfect shape with a positive cutting angle.

This special alloy is to be preferred for highly stressed fittings and cast components such as housing covers for industrial water meters, steam fittings, valves and control parts for compressed air and hydraulics.

Physical properties (standard values)			
Condition		GC	GM
Density	$\rho$ [kg/dm <sup>3</sup> ]		8,3
Coefficient of thermal expansion	$\alpha$ [ $\cdot 10^{-6}/K$ ]		18
Electrical conductivity	$\kappa$ [MS/m]		4
Modulus of elasticity	$E$ [kN/mm <sup>2</sup> ]		100

Mechanical properties (standard values)			
Condition		GC	GM
Brinell Hardness	<b>HBW</b>		Min. 130
0,2% - proofstress	<b>R<sub>p0,2</sub></b> [N/mm <sup>2</sup> ]		Min. 300
Tensile strength	<b>R<sub>m</sub></b> [N/mm <sup>2</sup> ]		Min. 500
Elongation	<b>A</b> [%]		8
Compressive strength	<b>R<sub>d</sub></b> [N/mm <sup>2</sup> ]		-
Max. loading pressure	<b>p<sub>zul.</sub></b> [N/mm <sup>2</sup> ]		-

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