

# Material Data Sheet



## BÖGRA - Ms60

*CuZn39Pb1Al-C*

Chemical Composition [wt%]	
Cu	remainder
Zn	38,0
Pb	1,5
Al	<0,8
Sn	<1,0
Ni	<1,0
Fe	<0,7
Mn	<0,5

### Material Designation

Bögra: **Ms60** according to Production Specification BT-Ms60-314

DIN: Complies with CuZn39Pb1Al-C according to DIN EN 1982:2008

### Material-No.

CC754S (2.0340) according to DIN 1709

### Supplied as

- Gravity Die-Castings

### Applications

This is a high-quality, gravity die casting brass for smooth, clean, sharp edged results. It is used for complex, thin-walled castings.

It is used for control components that are not subject to very high loads, for electrical actuators, carbon brush holders, bathroom and stacked fittings, optical instruments and for many difficult castings that are not subjected to very high loads.

Good general corrosion resistance. Ms60 can easily be machined.

Physical properties (standard values)		
Condition		GM
Density	$\rho$ [kg/dm <sup>3</sup> ]	8,5
Coefficient of thermal expansion	$\alpha$ [ $\cdot 10^{-6}/K$ ]	19
Electrical conductivity	$\kappa$ [MS/m]	13
Modulus of elasticity	$E$ [kN/mm <sup>2</sup> ]	100

Mechanical properties (standard values)		
Condition		GM
Brinell Hardness	HBW	Min. 70
0,2% - proofstress	$R_{p0,2}$ [N/mm <sup>2</sup> ]	Min. 120
Tensile strength	$R_m$ [N/mm <sup>2</sup> ]	Min. 280
Elongation	$A$ [%]	10
Compressive strength	$R_d$ [N/mm <sup>2</sup> ]	-
Max. loading pressure	$p_{zul.}$ [N/mm <sup>2</sup> ]	-

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