Material Data Sheet



BÖGRA - T250

CuAl11Fe6Ni6-C

Chemical Composition [wt%]	
Cu	remainder
Al	11,0
Fe	5,5
Ni	5,7
Mn	<2.5

Material Designation

Bögra: **T250** according to Production

Specification BT-T250-839

DIN: Complies with CuAl11Fe6Ni6-C

according to DIN EN 1982:2008

Material-No.

CC334G (2.0980) according to DIN 1714

Supplied as

- Machined Slide Bearings
- Gravity Die-Castings

Applications

This alloy should be partnered with as hard a material as possible. It has good heat resistance. Thus, if a suitable lubricant is used, e.g. molybdenum sulphide, it can also be used at high temperatures as Bearings, pressure-nuts, worm-gears, shift-segments and slide-plates.

The material has high wear-resistance and is readily welded. Especially suitable for use in hot and cold seawater and in dilute, non-oxidising acids. It has very good long-term vibration resistance, enabling it to withstand shock loading.

Physical properties (standard values)			
Condition		GM	
Density	ρ [kg/dm³]	7,6	
Coefficient of thermal expansion	α [*10 ⁻⁶ /K]	18	
Electrical conductivity	κ [MS/m]	3,5	
Modulus of elasticity	E [kN/mm²]	110	

Mechanical properties (standard values)			
Condition		GM	
Brinell Hardness	HBW	Min.185	
0,2% - proofstress	Rp_{0,2} [N/mm ²]	Min. 380	
Tensile strength	$R_m [N/mm^2]$	Min. 750	
Elongation	A [%]	5	
Compressive strength	R_d [N/mm ²]	-	
Max. loading pressure	p _{zul.} [N/mm²]	Max. 200	

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.

 Rev.03
 Prepared by: M. Prawinski
 Checked: P. Hoppe
 Approved: M. Lepperhof

 Date: 15.06.2016
 Date: 11.07.2016
 Date: 29.08.2016