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/mm²]	Min. 380
Tensile strength	R_m [N/mm²]	Min. 750
Elongation	A [%]	5
Compressive strength	R_d [N/mm²]	-
Max. loading pressure	$p_{zul.}$ [N/mm²]	Max. 200