Material Data Sheet

BÖGRA – T250

CuAl11Fe6Ni6-C

Chemical Composition [wt%]	
Cu	remainder
Al	10,5
Fe	5,0
Ni	5,8
Mn	<2,5

Material Designation

Bögra: **T250** according to Production-Specification BT-T250-839 lead free

DIN: Complies with CuAl11Fe6Ni6-C according to DIN EN 1982:2017

Material-No.

CC334G (formerly 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		GC	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		GC	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