



Microstructure

Alloy

CuAl10Ni3Fe2



Characteristics & Typical Applications

Suitable for parts subjected to aggressive water conditions and corrosion. It is also common in the production of bushings used in machinery used in the food and chemical industries. It has a fairly high heat capacity among cast bronzes. In addition, it has moderately high ductility and a fairly high melting temperature.

Chemical Composition

Elements	Cu	Al	Fe	Mn	Ni	Mg	Pb	Si	Sn	Zn
EN 1982	80-86	8,5-10,5	1-3	2 max	1,5-4	0,05 max	0,1 max	0,2 max	0,2 max	0,5 max
Average Nominal	84	10	2	1	3	0,05	0,05	0,2	0,2	0,5

Typical Mechanical Properties

		Continuous Cast	Centrifugal Cast
		Tensile Strength Rm	MPa(min)
%0,2 Yield Stress	MPa(min)	220	220
Elongation	%(min)	20	20
Hardness	HB(min)	120	120

Physical Properties

Density	Specific Heat Capacity	Electrical Conductivity	Thermal Conductivity
8.3 g/cm ³	440 J/kg-K	11% IACS	45 W/m-K

Related Specifications

EN 1982	ASTM B271	ASTM B505
CC332G	C95200	C95200