



Microstructure

Alloy CuAl9



Characteristics & Typical Applications

Low permeability < 1.01, also resistant against diluted sulphuric acid, castings for the chemical and food industry, such as screw conveyors, feed-in trays, mixing arms, pickling racks and hooks. It has good corrosion in sea water.

Chemical Composition

| Elements | Cu | Al | Fe | Mn | Ni | Pb | Si | Sn | S | Zn |
|--------------------|-------|--------|------------|------------|----------|------------|------------|------------|------------|------------|
| EN 1982 | 88-92 | 8-10,5 | 1,2 max | 0,5 max | 1 max | 0,3 max | 0,2 max | 0,3 max | 0,3 max | 0,5 max |
| Average Nominal | 88 | 9 | 1 | 0,2 | 0,5 | 0,2 | 0,2 | 0,2 | 0,2 | 0,5 |

Typical Mechanical Properties

| | | Centrifugal Cast |
|---------------------|----------|------------------|
| Tensile Strength Rm | MPa(min) | 450 |
| %0,2 Yield Stress | MPa(min) | 160 |
| Elongation | %(min) | 15 |
| Hardness | HB(min) | 100 |

Physical Properties

| Density | Specific Heat Capacity | Thermal Conductivity |
|-----------------------|------------------------|----------------------|
| 8,4 g/cm ³ | 430 J/kg-K | 62 W/m-K |

Related Specifications

EN 1982

CC330G