

MCC

Mazak Centrifugal Casting alloy

MCC (also known as KS) is a zinc based alloy ideal for the production of strong decorative components by centrifugal casting and easy to cast close to finished form and redundant tooling can be remelted and re-used providing it is not contaminated with other materials, particularly lead or solder.

MCC is also an alloy with excellent fluidity. However dimensional stability and retention of mechanical properties over a period of years or when subjected to higher service temperature are not as good as zinc alloys for pressure casting as Mazak 3, Mazak 5 or Mazak 8.

PHYSICAL PROPERTIES	
Density	6.8 Kg/dm ³ at 21°C
Solidification range	370 - 380°C
Shrinkage	6 - 10 ‰
Lin. thermal expansion	28.0 x 10 ⁻⁶ coef./°C

TYPICAL ANALYSIS

ALLOYING ELEMENTS	
Aluminum	4.0%
Copper	3.0%
Magnesium	0.5%

IMPURITIES	
Iron	< 0.01%
Lead	< 0.003%
Cadmium	< 0.003%
Tin	< 0.001%
Nickel	< 0.001%
Silicon	< 0.02%