

MATERIAL DATASHEET

ALLOY 009 (eZeeCrimp)

Designation	
Diehl Brass Solutions	009 (eZeeCrimp)
DIN EN symbol	CuZn36Mg
DIN EN	CW734R
UNS	tbd.

Composition (mass as %, reference values)	
Cu	62.5
Si	0.3
P	max. 0.1
Zn	remainder



Application

- Lead-free alloy with good machinability and cold formability.
- Suitable for parts that require machining and cold forming, for example crimped parts (e.g. in the fields of electrics, engineering)

Products and relevant standards

Rods (general purposes)	EN 12164
Hollow rods (free machining purposes)	EN 12168
Profiles (general purposes)	EN 12167

Physical properties

Density		g/cm ³	8.2
Electrical conductivity	at RT	MS/m	14.1
Thermal conductivity	at RT	W/mK	101

Processing properties

Machinability good

Cold formability good

Heat treatment

Soft annealing	450 – 550 °C
Stress relief annealing	200 – 300 °C

Mechanical properties and hardness

- The strength properties and hardness values correspond to the alloy CuZn35Pb2 and are specified in the relevant product standards.
- The properties depend on the product, the condition and the dimensions.

Corrosion resistance

- Generally good resistance to neutral, alkaline and organic aqueous solutions.

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Risk Disclosure

The tests took place under the test conditions mentioned here. In these tests, selected properties of the alloy can be investigated. The test results are based on the test setup shown, which has specific laboratory conditions. Deviating conditions in the field may have significant effects. Aspects which play a decisive role include, in particular, but not exhaustively, the design of the components, the further processing of the alloy, the processing of the finished parts made with the alloy, transport and storage, the manner and location of use, the installation and the installation situation. When it comes to properties, the corrosion resistance of the material is a key factor. The DIN standard DIN EN ISO 8044 (formerly DIN 50900) defines corrosion as a reaction of a metallic material with its environment that causes a measurable change in the material and can impair the function of a metal component or an entire system. From a technical point of view, corrosion is a reaction of a material with its environment that causes a measurable change in the material. Corrosion can impair the function of a component or system. Corrosion, as a complex system of interactions, depends on a large number of factors which, in their multifactority, cannot be fully reproduced under test conditions. The type of corrosion known as dezincification, which occurs with zinc-containing copper alloys that are in contact with drinking water, is familiar to the broad expert public. The purchaser of the alloy is responsible for determining and testing the design, further processing, application areas of products made from the alloy, and any other relevant factors. This is also applicable when determining the dezincification depth that is considered reasonable for the selected area of application. Diehl cannot accept any liability for this, but solely for the information contained in the enclosed product data sheet.