

### MATERIAL DATASHEET

# **ALLOY 062 (ECOMERICA)**

Designation	
Diehl Brass Solutions	062 (ECOMERICA)
DIN EN symbol	CuZn38As
DIN EN	CW511L
UNS	C27453

Composition (mass as %, reference values)		
Cu	63.3	
Pb	< 0.2	
As	0.09	
Zn	remainder	



## **Application**

- Alloy with good cold formability as well as good solderability and weldability.
- The alloy can be used in drinking water installations.
- If the material is processed at temperatures above 600 °C, the dezincification resistance (in accordance with the EN ISO 6509 test procedure
  and the relevant product standards) is impaired. To ensure performance, suitable heat treatment must therefore be carried out to restore dezincification resistance. The annealing temperature for this lies at between 500 °C to 550 °C. For further information, please contact the manufacturer.

Products and relevant standards		
Rods (free machining purposes)	EN 12164	
Rods (forging stock)	EN 12165	
Hollow rods (free machining purposes)	EN 12168	
Profiles (general purposes)	EN 12167	

Physical properties		
Density	g/cm³	8.4
Coefficient of linear thermal expansion: 20 – 200 $^{\circ}\text{C}$	• 10 <sup>-6</sup> /K	20.71
Electrical conductivity	$\text{m}/\Omega\text{mm}^2$	16.2
Thermal conductivity	W/mK	123
Young's modulus	GPa	97

Processing properties	
Machinability (CuZn39Pb3 = 100%)	moderate (Index 50)
Hot formability	moderate
Cold formability	good

Heat treatment	
Soft annealing	450 – 550 °C
Stress relief annealing	250 − 300 °C
Hot forming	650 – 760 °C

## **Mechanical properties and hardness**

- The strength properties and hardness values 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
- Resistant to dezincification according to the EN ISO 6509 test procedure.

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