

MATERIAL DATASHEET

**ALLOY 062 (ECOMERICA)**



Designation		Composition (mass as %, reference values)	
Diehl Metall	062 (ECOMERICA)	Cu	63.3
DIN EN symbol	CuZn38As	Pb	< 0.2
DIN EN	CW511L	As	0.09
UNS	C24453	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/cm <sup>3</sup>	8.4
Coefficient of linear thermal expansion: 20 – 200 °C	• 10 <sup>-6</sup> /K	20.71
Electrical conductivity	m/Ωmm <sup>2</sup>	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

**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.

**Heat treatment**

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

**Corrosion resistance**

- Generally good resistance to neutral, alkaline and organic aqueous solutions.
- Resistant to dezincification according to the EN ISO 6509 test procedure.

**Diehl Metall Stiftung & Co. KG**

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