



.....

**Material Datasheet:**  
**CuZn36Pb2As**  
**(CW602N)**

.....

**MACHINING / HOT STAMPING BRASS RODS**

# CuZn37Pb2As

**Dezincification resistant standard alloy for machining**

**CuZn37Pb2As alloy combines remarkably both machining and cold working properties, being commonly used for bending. For this reason, it suits all the applications where these two characteristics are required simultaneously. Furthermore, it also has excellent hot working properties, which makes it ideal for parts that need posterior machining operations.**

## MATERIAL DESIGNATION

ASBW	International	EN	UNS	JIS	Further Restrictions
B10	CuZn37Pb2As	CW602N	C35330	-	4 MS Common Approach, Part B

## REFERENCE CHEMICAL COMPOSITION IN % (MAIN ELEMENTS) \*

Material	Cu	Pb	Ni	Fe	As	Sn	Al	Bi	Zn	Other elements
B10**	62,0	2,0	0,1	0,1	0,1	0,1	0,05	-	Rem.	≤ 0.2 %

\* Deviations from these values may occur within the restrictions of the relevant standard specifications.

Elements not listed must be < 0.02 %

\*\* ASBW / B10 complies with the restrictions to the chemical composition of the signed materials in the table, according to the specified in the 4 MS Common Composition List.

## FABRICATION PROPERTIES\*

### FORMING

Machinability (CuZn39Pb3 = 100 %)	80 %
Cold Workability	Good
Hot Workability	Good

### JOINING

Resistance Welding (Butt Welding)	Fair
Inert Gas Shielded Arc Welding	Not Recommended
Gas Welding (Most Commonly Oxyacetylene)	Not Recommended
Hard Soldering	Fair
Soft Soldering	Excellent
Brazing	Fair

### POLISHING

Mechanical	Good
Electrolytic	Fair
Electroplating	Excellent

\*Dezincification resistance is achieved through a  $\beta$ -phase-free microstructure. Therefore, a 550 °C/4h heat treatment of the parts is recommended after stamping or any other operation that require an exposure of the brass rods to high temperatures.



## FINISHING AND PACKAGING

Bar ends	<b>Marked according to customer's specification</b>
Bar surface	<b>Standard machining rods: bright, stripped surface</b> <b>Standard stamping rods: Dark and uniform surface</b>
Packaging	<b>Size range up to 10 mm:</b> <b>The rods are packed loose in a wooden box and protected with oiled paper (net weight of approx. 500 kg). Each box is strapped with 4 steel straps to ensure material integrity during shipping.</b>  <b>Size range &gt; 10 mm:</b> <b>ASBW machining rods are supplied by standard in bundles either of approximately 1.000 kg or 500 kg. Different bundle weights are also possible upon customer's request. Each bundle is steel strapped three times on cardboard and both ends are protected with litter, to ensure the material integrity during the transportation</b>
Identification	<b>Adhesive label on bundle strap: customer</b> <ul style="list-style-type: none"><li>- number of customer's order</li><li>- EN Standard of the material</li><li>- ASBW material code</li><li>- rod length</li><li>- ASBW's PO number</li><li>- ASBW's Quality Approval Seal</li></ul>

The technical information within this datasheet is provided by ASBW without any surcharge.  
The end use of this content is up to the user discretion and risk.  
For further detailing on technical aspects such as material condition, machining, mechanical data, temper selection through contact to our technical personal.



ASBW - Metais & Metais, S.A

Main office and factory: Rua de Sousanil, 476, 4525-100 Canedo VFR, Santa Maria da Feira - Portugal  
Phone: +351 227 637 040  
Email: [asbw@asbw.pt](mailto:asbw@asbw.pt)  
NIPC: 513 345 183  
Social Capital: € 50.000