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**Material Datasheet:**  
**CuZn35Pb1**  
**(CW600N)**

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**MACHINING BRASS RODS**

# CuZn35Pb1

**Alloy for machining with good cold workability**

**CuZn35Pb1 alloy has special characteristics for machining operations, allowing to obtain good results through free cutting operations. These characteristics are conferred by the content in lead, homogeneously dispersed along the microstructure. It also has a satisfactory behavior when cold operations are required, due to its high content in copper.**

## MATERIAL DESIGNATION

ASBW	International	EN	UNS	JIS	Further Restrictions
B01	CuZn35Pb1	CW600N	C34000	-	-

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

Material	Cu	Pb	Ni	Fe	As	Sn	Al	Bi	Zn	Other elements
B01	63,0	1,2	0,2	0,1	-	0,1	0,03	-	Rem.	≤ 0.1 %

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

## FABRICATION PROPERTIES

### FORMING

Machinability (CuZn39Pb3 = 100 %)	75%
Cold Workability	Good
Hot Workability	Good

### JOINING

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

### POLISHING

Mechanical	Good
Electrolytic	Poor
Electroplating	Excellent



## FINISHING AND PACKAGING

Bar ends	<b>Marked according to customer's specification</b>
Bar surface	<b>Standard machining rods: bright, stripped 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>- <b>number of customer's order</b></li><li>- <b>EN Standard of the material</b></li><li>- <b>ASBW material code and LOT number ensuring production tracking</b></li><li>- <b>rod length</b></li><li>- <b>ASBW's PO number</b></li><li>- <b>ASBW's Quality Approval Seal</b></li></ul>

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For further detailing on technical aspects such as material condition, machining, mechanical data, temper selection through contact to our technical personal.



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