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**Material Datasheet:**  
**CuZn39Pb2Sn**  
**(CW613N)**

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**HOT STAMPING BRASS RODS**

# CuZn39Pb2Sn

## Alloy for hot stamping

**CuZn39Pb2Sn alloy combines remarkably some cold working properties with excellent hot working properties. The homogenous content of lead on this alloy also provides good machinability which makes it suitable for parts that need some posterior machining operations.**

### MATERIAL DESIGNATION

ASBW	International	EN	UNS	JIS	Further Restrictions
B6	CuZn39Pb2Sn	CW613N	C3800	C3771	-

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

Material	Cu	Pb	Ni	Fe	As	Sn	Al	Bi	Zn	Other elements
B6	59,5	2,1	0,2	0,2	-	0,4	0,05	-	Rem.	≤ 0.2 %

\* 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	Excellent

#### 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	Excellent
Electrolytic	Fair
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> <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 and LOT number ensuring production tracking</li><li>- rod length</li><li>- ASBW's PO number</li><li>- ASBW's Quality Approval Seal</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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