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Material Datasheet:
CuZn39Pb1
(CW611N)

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MACHINING / HOT STAMPING BRASS RODS

CuZn39Pb1

**Alloy for both
machining
and hot
stamping rods**

CuZn39Pb1 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 suitable for parts that need some posterior machining operations.

MATERIAL DESIGNATION

ASBW	International	EN	UNS	JIS	Further Restrictions
B07	CuZn39Pb1	CW611N	C37100	C3771	-

REFERENCE CHEMICAL COMPOSITION IN % (MAIN ELEMENTS) *

Material	Cu	Pb	Ni	Fe	As	Sn	Al	Bi	Zn	Other elements
B07	59,5	1,2	0,2	0,2	-	0,2	0,03	-	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

Rods			acc. to EN 12165	
Temper	Diameter		Hardness HB	
	from [mm]	to [mm]	min.	max.
M	all		As manufactured	
H070	8	120	70	100

FINISHING AND PACKAGING

Bar ends	Marked according to customer's specification
Bar surface	Standard machining rods: bright, stripped surface Standard stamping rods: Dark and uniform surface
Packaging	<p>Size range up to 10 mm:</p> <p>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.</p> <p>Size range > 10 mm:</p> <p>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</p>
Identification	<p>Adhesive label on bundle strap: customer</p> <ul style="list-style-type: none"> - number of customer's order - EN Standard of the material - ASBW material code and LOT number ensuring production tracking - rod length - ASBW's PO number - ASBW's Quality Approval Seal

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.



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