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Material Datasheet:
CuZn40Pb2
(CW617N)

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MACHINING / HOT STAMPING BRASS RODS

CuZn40Pb2

Standard alloy for stamping rods

CuZn40Pb2 is the benchmark material for hot stamping brass rods. This alloy perfectly combines hot stamping and machining properties, making it the best solution for parts of high complexity that require demanding machining operations after stamping. It is also perfect for producing parts that only require free machining operations.

MATERIAL DESIGNATION

ASBW	International	EN	UNS	JIS	Further Restrictions
B11	CuZn40Pb2	CW617N	C37800 C38000	C3603 C3604 C3651	4 MS Common Approach, Part B
B13					-

REFERENCE CHEMICAL COMPOSITION IN % (MAIN ELEMENTS) *

Material	Cu	Pb**	Ni**	Fe**	As	Sn**	Al**	Bi	Zn	Other elements
B11**	58,0	2,0	0,1	0,2	-	0,2	0,05	-	Rem.	≤ 0.2 %
B13	58,0	2,0	0,3	0,2	-	0,3	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 / B11 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 %)	95 %
Cold Workability	Poor
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	Good
Electrolytic	Poor
Electroplating	Excellent

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	Size range up to 10 mm: 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. Size range > 10 mm: 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
Identification	Adhesive label on bundle strap: customer <ul style="list-style-type: none">- number of customer's order- EN Standard of the material- ASBW material code- rod length- ASBW's PO number- ASBW's Quality Approval Seal

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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.

ASBW

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