



.....

Material Datasheet:
CuZn33Pb1.5AlAs
(CW626N)

.....

MACHINING / HOT STAMPING BRASS RODS

CuZn33Pb1.5AlAs

Dezincification resistant alloy for machining

CuZn33Pb1.5AlAs alloy integrates the 4MS Composition List of accepted metallic materials to be in contact with drinking water. It is ideal for manufacturing parts to be in contact with drinking for which dezincification resistance is also a requirement.

MATERIAL DESIGNATION

ASBW	International	EN	UNS	JIS	Further Restrictions*
B28	CuZn36Pb1.5AlAs	CW626N	-	-	4 MS Common Approach, Part B

REFERENCE CHEMICAL COMPOSITION IN % (MAIN ELEMENTS)

Material	Cu	Pb	Ni	Fe	As	Sn	Al	Mn	Zn	Other elements
B28	Min.64,0	1,2	-	-	0,02	-	0,8	-	Rem.	≤ 0.2 %
	Máx.66,0	1,7	0,2	0,3	0,15	0,3	1,0	0,1		

* ASBW / B28 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, on customer request.

FABRICATION PROPERTIES**

FORMING

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

JOINING

Resistance Welding (Butt Welding)	Not recommended
Inert Gas Shielded Arc Welding	Not recommended
Gas Welding (Most Commonly Oxyacetylene)	Not recommended
Soldering	Good

**Dezincification resistance is achieved through a β -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.

HEAT TREATMENT

Melting Range	875 – 920 °C
Hot Working	700 – 800 °C
Soft Annealing	450 – 550 °C Duration: 1 – 3 h
Thermal Stress Relieving	200 – 300 °C Duration: 1 – 3 h

Rods		acc. to EN 12165		
Temper	Diameter		Hardness HB	
	from [mm]	to [mm]	min.	max.
M	all		As manufactured	
H070	8	120	70	110

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 just for information purposes and 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



BARBOSA WORLD BRASS, 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
 NIPC: 515 557 552
 Social Capital: € 350.000