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DATA SHEET:
CZA26 CW626N

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HOT FORGING

The logo for HUG, featuring the word "HUG" in a bold, white, sans-serif font, enclosed within a white circular border.

HUG

Anti dezincification alloy with low lead release.

It was created to contain the release of lead in water destined for human consumption to a minimum. Arsenic and aluminum also significantly reduce dezincification. Good hot plastic deformability. Good workability characteristics for chip removal. Complies with the requirements of 4MS, replaces the CW602N for contact with drinking water.

NAME OF ALLOY

UNI EN: CW626N - CuZn33Pb1.5AlAs

CHEMICAL COMPOSITION UNI EN 12164 ED.2016

Cu	Pb	Sn	Fe	Ni	Al	Mn	As	Zn	Other elements
min. 64.0 max 66.0 %	1.2 1.7 %	≤0.3 %	≤0.3 %	≤0.2 %	0.8 1.0 %	≤0.1 %	0.02 0.15 %	diff.	≤0.2 %

Elements not listed must be less than 0.02 %.

Group of restriction of the surface in contact with drinking water: B,D.

HEAT TREATMENTS

SOLUBILIZATION OF RESIDUAL β PHASE

To optimise the material's corrosion resistance a thermal treatment between 500°C and 550°C for 2 hours and cooling within the furnace is required.

This treatment following hot forging allows solubilization of the residual beta phase to render the material resistant to dezincification.

The omission of this treatment does not allow the alloy to offer the anti-dezincification performance that it is designed for.

STRESS RELIEVING

Allows for redistribution of tensions induced by mechanical processing, reducing the risk of stress corrosion cracking.

The treatment consists of heating the items to 200°C - 250°C for 2 hours and cooling within the furnace.

TECHNOLOGICAL PROPERTIES

low excellent

Structure	α	Machinability	
Density	8.4 kg/cm ²	Weldability	
Electrical conductivity	20% IACS	Hot forming	
Coeff. of thermal expansion	21.5 10 ⁻⁶ /K	Cold forming	
Thermal conductivity*	95 W/(m K)	Corrosion resistance**	<200 μm
Specific heat	380 J/(kg K)		
Elasticity module	96 kN/mm ²		
Melting point	875-910 °C		

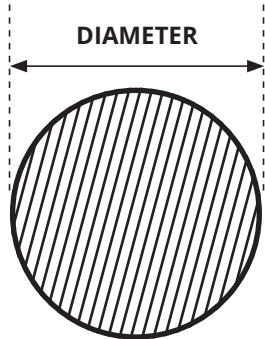
*at room temperature

**use care to ascertain compatibility with chemical substances

CZA26 CW626N

Anti-dezincification alloy with low lead release.

ALMAG



MECHANICAL PROPERTIES UNI EN 12164 ED.2016

Condition of material	Diameter mm		Hardness HB	
	from	to (included)	min.	max
M	All		As a product	
H070	8	120	70	150

Any special hardness values must be defined when ordering

Rm N/mm ²	Rp _{0.2} N/mm ²	A%
440-460*	330-360	24-30

*The values shown are not regulated and are only indicative

DIMENSIONS, TOLERANCES, AND STRAIGHTNESS UNI EN 12164 ED.2016

Nominal diameter (mm)		TOLERANCES		Diameter mm		Length of bar	Tolerance mm
		Class A	Class B				
10	18	+/- 0.25	+/- 0.14	10	30	3.0 - 5.0	+/- 100
18	30	+/- 0.30	+/- 0.17	30	50	3.0 - 5.0	+/- 200
30	50	+/- 0.60	+/- 0.20	50	80	3.0	+/- 300
50	80	+/- 0.70	+/- 0.37				
80	120	+/- 2					

The standard "Extruded calibrated" product is produced in Class B up to and including Ø80 mm
Semi-finished products over Ø45 mm can be supplied in the "pressed" and "rolled" forms with Class A tolerance

Diameter (mm)		Deviation from straightness in mm	
		Every 400 mm	Every m of length L ≥ 1
10	50	0.4	1.0 x L

BAR FINISHING AND PACKAGING

Bar ends	finishing with saw cut and chamfer
Bar surface	not pickled
Packaging	1000 kg bundle - 3/5 metal straps different bundle packagings and quantities are possible upon request
Identification	adhesive label on bundle strap

COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV GL

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