

sarbak



## TECHNICAL DATA SHEET

**CW626N - CuZn33Pb1,5AlAs**

S626  
RODS / HOLLOW RODS

Product Code	EN Symbol	EN No	ASTM		Cu	Zn	Pb	Sn	Fe	As	Ni	Al	Mn	Others Total
S626	CuZn33Pb1,5AlAs	CW626N	-	Min (%)	64,0	Rem.	1,2	-	-	0,02	-	0,8	-	-
				Max (%)	66,0	Rem.	1,7	0,3	0,3	0,15	0,2	1	0,1	0,2

(\*) Each of the other elements < 0,02 %

## Features And Applications

CW626N is an alloy as a substitute for the alloy CW602N. CW626N meets ISO 6509 requirements regarding the dezincification resistance. Approximately 2 hours annealing at around 500 °C is recommended for EN ISO 6509 standard compliance after hot forging process. Depending on the process conditions, temperature and time can also change. Also this alloy compliance with UBA Hygienic list, 4MS, RoHS II and REACH directives.

4MS and UBA Hygienic list group for CW626N alloy: B, C, D

## Area of Usage

Fitting parts used in aggressive (corrosive) water.

## TECHNICAL SPECIFICATIONS

Structure	α	Hot Forming	700-800 °C
Machinability	% 70	Soft Annealing	500-550 °C
Density	8,4 g/cm <sup>3</sup>	Soft Annealing Time	2 hours
Electrical Conductivity	20 %IACS	Stress Relieving	200-250 °C
Thermal Conductivity	95 W/(m·K)	Stress Relieving Time	2 hours
Elasticity Module	96 kN/mm <sup>2</sup>	Max. Depth of Dezincification	<200 μm
Coeff. of Thermal Expansion	21,5 10 <sup>-6</sup> /K		
Melting Point	875-900 °C		

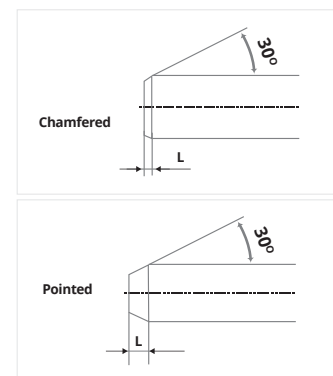
## Range of Products

S626 alloy can be produced in our extrusion and cold drawing unit as rods, hollows and profiles suitable for both forging and machining. Please contact us for other technical informations.

## INDICATIVE SHAPED ENDS DIMENSIONS

Nominal Diameter or Width		Type A - Chamfer Length (L)		Type B - Point Length (L)	
Across-flats (mm)		Min (mm)	Max (mm)	Min (mm)	Max (mm)
Over	Up to and including				
-	10	0,2	1,5	2	7
10	20	0,2	2	3	10
20	30	0,2	3	4	12

Unless otherwise specified by the buyer, the shape of the ends of products larger than 30 mm is up to the supplier.



Nominal Diameter or Width Across-flats (mm)		Preferred (available) Lengths (mm)	Tolerance on Length (mm)
Over	Up to and including		
10 <sup>inc.</sup>	30	3.000 - 4.000	±50
30	80	3.000 - 4.000	±100

**Stress Relieving** The polygonal rods and hollow rods are subjected to stress relieving treatment

**Packaging** 500 or 1000 kg bundle - 3/5 metal straps different bundle packagings, up to 10 mm dimension products are packed with wooden case

### EN 12164 - Rods for Free Machining

Material Condition	Nominal Diameter (mm)		Width Across-flats (mm)		Tensile Strength R <sub>m</sub> N/mm <sup>2</sup> (MPa) <b>Min</b>	0,2 % Proof Strength N/mm <sup>2</sup> (MPa)		Elongation			Hardness (HBW)	
	Over	Up to and inc.	Over	Up to and inc.		Min	Max	A <sub>100mm</sub> (%) <b>Min</b>	A <sub>11,3</sub> (%) <b>Min</b>	A (%) <b>Min</b>	Min	Max
M	All		All		As manufactured							
R280	10	80	10	55	280	-	200	-	25	30	-	-
H070	10	80	10	55	-	-	-	-	-	-	70	110
R320	10	60	10	50	320	200	-	-	15	20	-	-
H090	10	60	10	50	-	-	-	-	-	-	90	135
R400	10	15	10	13	400	250	-	-	5	8	-	-
H105	10	15	10	13	-	-	-	-	-	-	105	-

### EN 12168 - Hollow Rods for Free Machining

Material Condition	Wall Thickness (mm)		Tensile Strength R <sub>m</sub> N/mm <sup>2</sup> (MPa) <b>Min</b>	0,2 % Proof Strength N/mm <sup>2</sup> (MPa)		Elongation A (%) <b>Min</b>	Hardness (HBW)		Hardness (HV)	
	Over	Up to and inc.		Min	Max		Min	Max	Min	Max
M	All		As manufactured							
R280	4	All	280	-	200	30	-	-	-	-
H070	4	All	-	-	-	-	70	110	80	120
R320	4	20	320	200	-	20	-	-	-	-
H090	4	20	-	-	-	-	90	135	100	145
R400	4	8	400	250	-	8	-	-	-	-
H105	4	8	-	-	-	-	105	-	115	-

### EN 12165 - Wrought and Unwrought Forging Stocks

Material Condition	Nominal Diameter (mm)		Hardness (HBW)	
	Over	Up to and including	Min	Max
M	All		As manufactured	
H070	8	80	70	110

STANDARD		EN 12164			EN 12165		EN 12168					
Dimension Range		Round Rod		Hexagonal, Square	Round Rod		Round and Hexagonal Hollow Rod, Outer Dim. Tol.			Hole Tolerance Round		Hole Tol. Hexagonal
Over	Up to & inc.	Class A	Class B	Rod	Class A	Class B	Class A	Class B	Class C	Class A	Class B	-
-	10	0 -0,06	0 -0,036	0 -0,09	±0,25	±0,14	-	-	-	-	-	-
10	13	0 -0,07	0 -0,043	0 -0,11	±0,25	±0,14	-	-	-	-	-	-
13	18	0 -0,07	0 -0,043	0 -0,11	±0,25	±0,14	-	-	-	±0,35	-	+0,70 -0
18	20	0 -0,08	0 -0,052	0 -0,13	±0,30	±0,17	-	-	-	±0,42	-	+0,84 -0
20	23	0 -0,08	0 -0,052	0 -0,13	±0,30	±0,17	-	-	-	±0,42	±0,17	+0,84 -0
23	26	0 -0,08	0 -0,052	0 -0,13	±0,30	±0,17	-	0 -0,21	-	±0,42	±0,17	+0,84 -0
26	30	0 -0,08	0 -0,052	0 -0,13	±0,30	±0,17	-	0 -0,21	0 -0,13	±0,42	±0,17	+0,84 -0
30	50	0 -0,16	-	0 -0,16	±0,60	±0,20	-	0 -0,25	0 -0,16	±0,80	±0,20	+1,6 -0
50	55	0 -0,19	-	0 -0,19	±0,70	±0,37	-	0 -0,46	0 -0,30	±0,95	±0,37	-
55	65	0 -0,19	-	-	±0,70	±0,37	±0,60	0 -0,46	0 -0,30	±0,95	-	-
65	80	0 -0,19	-	-	±0,70	±0,37	±0,60	0 -0,46	0 -0,30	±0,95	-	-
80	120	-	-	-	±2	-	-	-	-	-	-	-
120	140	-	-	-	±2,5	-	-	-	-	-	-	-

**For Hollow Rods**

Minimum wall thickness is 4 mm. Eccentricity : %10 (max.)

**Outer Cold Drawn - Internal Extruded**

Outer Class B - Hole Class A tolerance

**Inner-Outer Cold Drawn**

Outer Class C - Hole Class B tolerance

**Inner-Outer Extruded**

Outer Class A - Hole Class A tolerance



**Headquarter**

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