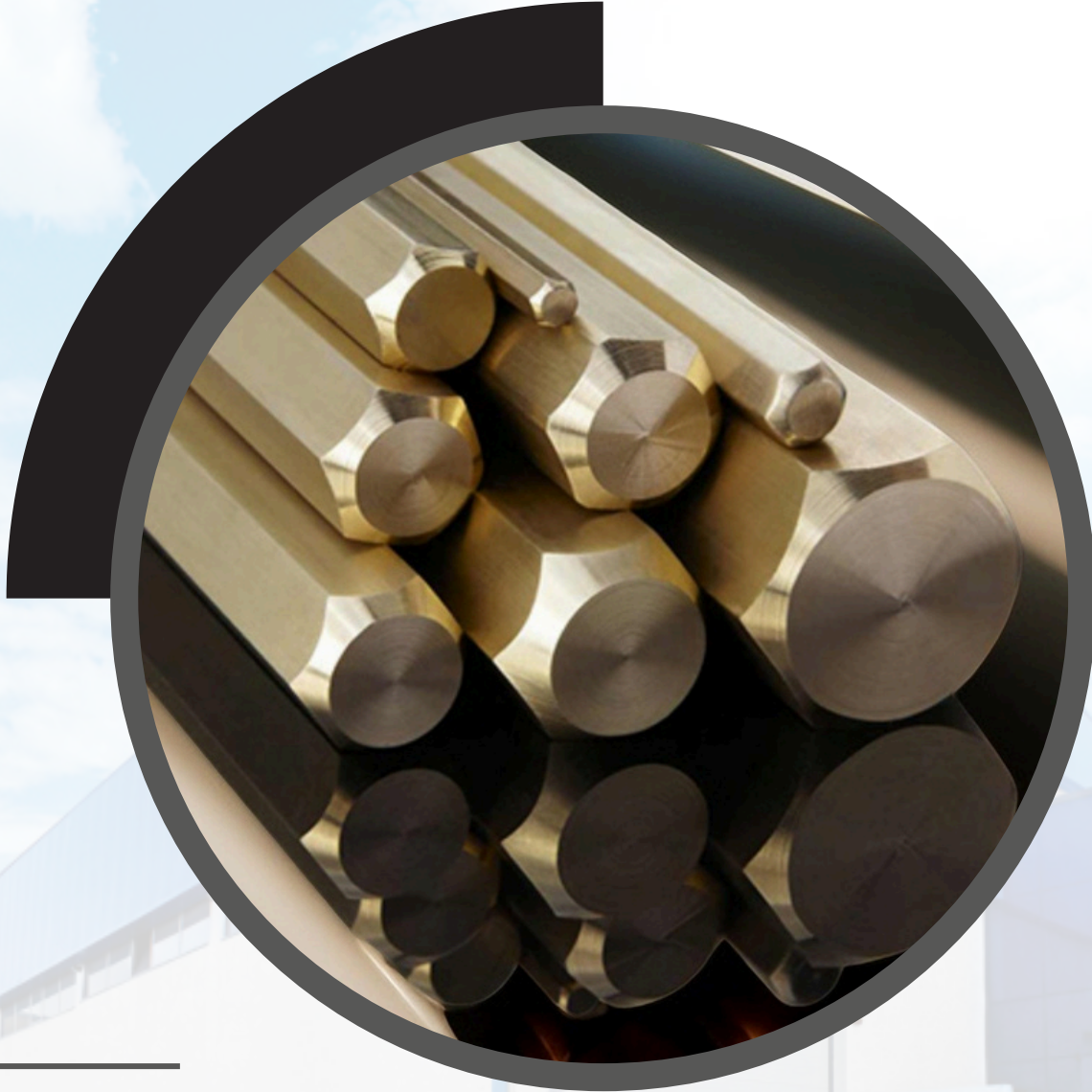


DATA SHEET

CW724R - CuZn21Si3P



■ **Quality is ...**

+90 444 1 445

www.guzelmetal.com

CW724R - CuZn21Si3P

NAME OF ALLOY

UNI EN: CW724R - CuZn21Si3P ASTM:C69300

CHEMICAL COMPOSITION UNI EN 12165 ED.2016

Cu	Pb	Sn	Fe	Ni	Al	Si	Mn	P	Zn	Other
min. 75.0 max 77.0 %	≤0.1 %	≤0.3 %	≤0.3 %	≤0.2 %	≤0.05 %	2.7 3.5 %	≤0.05 %	0.02 0.10%	diff.	≤0.2 %

Elements not listed must be ≤0.02 %.
Group of restriction of the surface in contact with drinking water: B,D

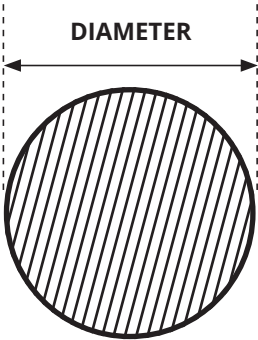
HEAT TREATMENTS

STRESS RELIEVING	OTHER TREATMENTS
Enables the redistribution of tensions induced by mechanical processing or cold plastic deformation 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. The validation of the stress relieving treatment can be performed with the ISO 6957 test.	No other heat treatments are required.

TECHNOLOGICAL PROPERTIES			low	excellent
Structure	α+k+γ	Machinability	<div><div></div></div>	
Density	8.3 kg/cm2	Weldability	<div><div></div></div>	
Electrical conductivity	26% IACS	Hot forming	<div><div></div></div>	
Coeff. of thermal expansion	19.7 10-6/K	Cold forming	<div><div></div></div>	
Thermal conductivity*	32 W/(m K)	Corrosion resistance**	<100 mm	
Specific heat	377 J/(kg K)			
Elasticity module	88 kN/mm2			
Melting point	830-920 °C			

*at room temperature
**use care to ascertain compatibility with chemical substances

CW724R - CuZn21Si3P



MECHANICAL PROPERTIES UNI EN 12165 ED.2016				
Condition of material	Diameter in mm		Hardness HB	
	from	to (included)	min.	max.
M	All		As a product	
H130	8	80	130	220
Any special hardness values must be defined when ordering				
Rm N/mm2	Rp0.2 N/mm²		A%	
600-750*	350-450*		15-25*	
*The values shown are not regulated and are purely indicative.				

DIMENSIONS, TOLERANCES, AND STRAIGHTNESS UNI EN 12165 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	60	3.0	6.0 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





GÜZEL METAL SANAYİ VE TİCARET LİMİTED ŞİRKETİ

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