

CuZn21Si3P | Hexagon bars

DATA SHEET



Alloy	CuZn21Si3P, CW724R	
Condition	drawn, annealed, both sides chamfered Length app. 3 mtrs.	
Norm	DIN EN 12164	
Tolerance	DIN EN 12164 hex. 8 - 11 mm +0/ -0.09 mm hex. 12-18 mm +0/ -0.11 mm hex. 19 -30 mm +0/ -0.13 mm hex. 31-50 mm +0/ -0.16 mm hex. 51-60 mm +0/ -0.19 mm	
Machinability	very good	
Hot Workability	good	
Cold Workability	good	
Corrosion resistance	good	
REACH	no obligations	
RoHS	conform	

Mechanical Properties

	Tensile strength R_m	Yield stress $R_{p0.2}$	Elongation A	Hardness HB
hex. 2-14 mm R670-H170	$\geq 670 \text{ N/mm}^2$	$\geq 400 \text{ N/mm}^2$	$\geq 10\%$	170-220
hex. 15-39 mm R600-H150	$\geq 600 \text{ N/mm}^2$	$\geq 300 \text{ N/mm}^2$	$\geq 12\%$	150-220
hex. 40-80 mm R500-H130	$\geq 500 \text{ N/mm}^2$	$< 450 \text{ N/mm}^2$	$\geq 15\%$	130-180

CW724R/CuZn21Si3P is a lead-free, high performance special brass alloyed with silicon. It has high hardness and tensile strength while it exhibits very good resistance against dezincification and stress corrosion cracking. It satisfies the ELV and RoHS regulations and meets the E.U. drinking water requirements. It has been widely used around the world and applications can be found in many industries such as electrical and electronics, automotive, sanitary.

Chemical Analysis

Cu	75.0-77.0%
Al	max. 0.05%
Fe	max. 0.3%
Mn	max. 0.05%
Ni	max. 0.2%
P	0.02-0.10%
Pb	max. 0.1%
Si	2.7-3.5%
Sn	max. 0.3%
Zn	Rest
Others	max. 0.2%

Comparable Specifications

C69300