

Data sheet CW724R/ CuZN21Si3P Alumecco A/S		Internal alloy name: CW724R International alloy name: CuZn21Si3P DIN-Werkstoff no.: - Alloy type: - Revision date: 19-01-2021								
Main usage <ul style="list-style-type: none"> Automotive Parts Water faucet parts Electrical and electronic parts 	Main properties <ul style="list-style-type: none"> Machinability Are Emphasized Good Hot Formability High Strength Very low lead content 	Important norms and literature EN12164: Copper and copper alloys. Rod for free machining purposes EN12165: Copper and copper alloys. Wrought and unwrought forging stock EN12167: Copper and copper alloys. Profiles and bars for general purposes								
Chemical composition (%) DIN EN 12165										
Cu	Al	Fe	Mn	Ni	P	Pb	Si	Sn	Zn	Other elements
75-77,0	Max. 0,05	Max. 0,3	Max. 0,05	Max. 0,2	0,02- 0,10	Max. 0,10	2,7- 3,5	Max. 0,3	Rem.	Max. 0,2
Typical mechanical properties DIN EN 12165										
Material condition	As Manufactured									
M										
<small>** Information values only</small>										
Physical properties										
Density (20 °C) g cm⁻³	Solidification range °C	Electrical conductivity %IACS	Thermal conductivity (20 °C) W m⁻¹ K⁻¹	Thermal expansion (20- 300 °C) µm m⁻¹ K⁻¹	Annealing temperature °C					E - modulus (20 °C) N mm⁻²
8.25	860-925	7,8	33	20	530-650					110,300
Properties and information										
Fabrication Properties						Joining Methods				
Hot Formability		Very Good				Soldering		Excellent		
Cold Formability		Fair				Brazing		Excellent		
						Oxy-acetylene welding		Good		
						Gas-shielded arc welding		Good		