

Data sheet CC499K CuSn5Zn5Pb2 Alumecco A/S		Internal alloy name: CC499K Nominal composition: CuSn5Zn5Pb2 DIN-Werkstoff no.: - Alloy type: Leaded Bronze Revision date: 20-08-2020												
Main usage <ul style="list-style-type: none"> • Applications • Used when low lead is a demand 		Main properties <ul style="list-style-type: none"> • The alloy is suitable for constructions • Water and stream fittings up to 225 degrees 												
		Important norms and literature EN 1982 - Copper and copper alloy ingots and castings												
Chemical composition (%) DIN/EN 1982														
Cu	Ni	P	Pb	Sn	Zn	Al	As	Bi	Cd	Cr	Fe	S	Sb	Si
84,0	0,1	Max.	0,2	4,0	4,0	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
88,0	0,6	0,04	3,0	6,0	6,0	0,01	0,02	0,02	0,02	0,02	0,30	0,04	0,10	0,01
<small>Note: For drinking water applications, restrictions to the chemical composition of some materials listed in this table may apply according to national regulations/laws.</small>														
Mechanical properties DIN/EN 1982														
Casting process and designation		Tensile Strength R_m N/mm ²		0,2% proof strength $R_{p0,2}$ N/mm ²		Elongation A %		Brinell Hardness HBW						
		Min.		Min.		Min.		Min.						
Continuous GC		250		110		13		65						
Centrifugal GZ		250		110		13		65						
Physical properties														
Density (20 °C)		Solidification range		Electrical conductivity		Thermal conductivity		Thermal expansion (20-300 °C)		Annealing temperature		E - modulus		
g cm ⁻³		°C		%IACS		W m ⁻¹ K ⁻¹		µm m ⁻¹ K ⁻¹		°C		N mm ⁻²		
8.8		855-1010		12		71 - 73		18				100.000		
Properties and information														
Fabrication Properties							Joining Methods							
Hot Formability		Not Recommended					Soldering				Excellent			
Cold Formability		Not Recommended					Brazing				Good			
							Oxy-acetylene welding				Not Recommended			
							Gas-shielded arc welding				Not Recommended			