

<b>Data sheet</b>  <b>CC495K</b> <b>CuSn10Pb10-C</b>  <b>Alumeco A/S</b>		<b>Internal alloy name:</b> CC495K <b>Nominal composition:</b> CuSn10Pb10-C <b>DIN-Werkstoff no.:</b> - <b>Alloy type:</b> Lead bronze <b>Revision date:</b> 11-01-2021									
<b>Main usage</b> <ul style="list-style-type: none"> <li>• Fabricated item</li> <li>• Fasteners</li> <li>• Pump parts</li> <li>• Valve parts</li> <li>• Machine parts</li> <li>• Large bearings for ships</li> </ul>	<b>Main properties</b> <ul style="list-style-type: none"> <li>• Excellent machinability</li> <li>• Good self-lubricating properties</li> <li>• Low melting temperature</li> </ul>	<b>Important norms and literature</b> EN 1982 - Copper and copper alloy ingots and castings									
<b>Chemical composition (%) DIN/EN 1982</b>											
<b>Al</b>	<b>Cu<sup>a</sup></b>	<b>Fe</b>	<b>Mn</b>	<b>Ni</b>	<b>P</b>	<b>Sb</b>	<b>S</b>	<b>Pb</b>	<b>Si</b>	<b>Sn</b>	<b>Zn</b>
Max. 0,01	78,0 - 82,0	Max. 0,25	Max. 0,2	Max. 2,0	Max. 0,10	Max. 0,5	Max. 0,10	8,0 - 11,0	Max. 0,01	9,0 - 11,0	Max. 2,0
a) including nickel-											
<b>Mechanical properties DIN/EN 1982</b>											
<b>Casting process and designation</b>	<b>Tensile Strength R<sub>m</sub> MPa  Min.</b>	<b>0,2% proof strength R<sub>p0,2</sub> MPa  Min.</b>	<b>Elongation A %  Min.</b>	<b>Brinell Hardness** HBW  Min.</b>							
Sand GS	180	80	8	60							
Permanent mould GM	220	110	3	65							
Centrifugal GZ	220	110	6	70							
Continuous GC	220	110	8	70							
** Information values only											
<b>Physical properties</b>											
<b>Density kg/dm<sup>3</sup></b>	<b>Specific Heat J/(g*K)</b>	<b>Electrical conductivity MS/m</b>	<b>Thermal conductivity W m<sup>-1</sup> K<sup>-1</sup></b>	<b>Thermal expansion 10<sup>-6</sup> K</b>							
9,0	0,376	6,0	54	18,7							