

COPPER ALLOY

JM 5

CuSn10Pb10-C



Densitet 8,9

Edition 3

COMPOSITION

	Composition %											
	Cu ¹	Pb	Sn	Al	Fe	Mn	Ni ¹	P	S	Sb	Si	Zn
Nom	80	10	10									
Min	Bal	8,0	9,0									
Max	Bal	11,0	11,0	0,01	0,25	0,2	2,0	0,10	0,10	0,5	0,01	2,0

1) Including Ni.

MECHANICAL PROPERTIES

			Sandcast	Centrifugally- & continuously cast
			JM5-03	JM5-15
Rp0,2	Proof strength	N/mm ²	>=80	>=110
Rm	Tensile strength	N/mm ²	>=180	>=220
A5	Elongation	%	>=7	>=6
HB	Hardness	10/1000	>=60	>=70
E	Young's modulus	N/mm ²	80 000	80 000
	Coeff. of thermal expansion	X10 ⁻⁶ ,0-100°C	17,9	17,9
	Thermal conductivity	W/m °C	50	50
	Resistivity	nΩm,20°C	190	190
	Machinability		Excellent	Excellent
<p>Values given refer to separately cast test specimen to SIS 112152 or specimen cut from centrifugal- or continuous castings with a wall thickness corresponding to the test specimen diameter.</p>				
Nearest equivalent standards				
Swedish standard		SS-EN 1982	CC495K-GS	CC495K-GC/GZ
European standard		EN 1982	CC495K-GS	CC495K-GC/GZ
US standard		UNS	C 93700	C 93700
British standard (old)		BS	1400 LB2	1400 LB2
German standard (old)		DIN	1705, G-CuPb10Sn	1705, GZ/GC-CuPb10Sn