

COPPER ALLOY

JM 2

CuSn10-C



Edition 2

COMPOSITION

Density 8,8

	Composition %											
	Cu ¹	Sn	Al	Fe	Mn	Ni ¹	P	Pb	S	Sb	Si	Zn
Nom	90	10										
Min	Bal	9,0										
Max	Bal	11,0	0,01	0,2	0,10	2,0	0,2	1,0	0,05	0,2	0,01	0,5

1) Including Nickel

MECHANICAL PROPERTIES

			Sandcast	Centrifugally- & continuously cast
			JM2-03	JM2-15
Rp0,2	Proof strength	N/mm ²	>=120	>=130
Rm	Tensile strength	N/mm ²	>=240	>=270
A5	Elongation	%	>=12	>=10
HB	Hardness	10/1000	>=70	>=80
E	Young's modulus	N/mm ²	100 000	100 000
	Coeff. of thermal expansion	X10 ⁻⁶ ,0-100°C	17,3	17,3
	Thermal conductivity	W/m °C	50	50
	Resistivity	nΩm,20°C	170	170
	Skärbarhet		Very good	Very good
	Machinability			
<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	CC480K-GS	CC480K-GC/GZ
European standard		EN 1982	CC480K-GS	CC480K-GC/GZ
US standard		UNS	C 90700	C 90700
British standard (old)		BS	1400 CT1	1400 CT1
German standard (old)		DIN	1705, G-CuSn10	1705, GZ/GC-CuSn10