

COPPER ALLOY

JM 12



Edition 3

Density 8,7

COMPOSITION

	Composition %											
	Cu ¹	Sn	Zn	Pb	Al	Fe	Mn	Ni ¹	P	S	Sb	Si
Nom	88	10	2									
Min	Bal	9,0	1,0									
Max	Bal	11,0	3,0	1,5	0,01	0,25	0,2	1,0	0,05	0,10	0,3	0,01

1) Including Nickel

MECHANICAL PROPERTIES

				Sandcast	Centrifugally- & continuously cast
				JM12-03	JM12-15
Rp0,2	Proof strength	N/mm ²		>=120	>=140
Rm	Tensile strength	N/mm ²		>=240	>=260
A5	Elongation	%		>=12	>=7
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		18,0	18,0
	Thermal conductivity	W/m °C		50	50
	Resistivity	nΩm,20°C		150	150
	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					
	British standard (old)	BS		1400 G1	1400 G1
	German standard (old)	DIN		1705, G-CuSn10Zn	1705, GZ/GC-CuSn10Zn
	US standard	UNS		C 90500	C 90500