

COPPER ALLOY

JM 18

CuZn25Al5Mn4Fe3-C



Edition 2

COMPOSITION

Density 8,2

	Composition %								
	Cu ¹	Zn	Al	Fe	Mn	Ni ¹	Pb	Si	Sn
Nom	63	Bal	5	3	4				
Min	60,0		3,0	1,5	2,5				
Max	67,0		7,0	4,0	5,0	3,0	0,2	0,1	0,2

1) Including Nickel

MECHANICAL PROPERTIES

			Sandcast	Centrifugally- & continuously cast
			JM18-03	JM18-15
Rp0,2	Proof strength	N/mm ²	>=450	>=480
Rm	Tensile strength	N/mm ²	>=750	>=750
A5	Elongation	%	>=8	>=5
HB	Hardness	10/1000	>=180	>=190
E	Young's modulus	N/mm ²	105 000	105 000
	Coeff. of thermal expansion	X10 ⁻⁶ , 0-100°C	22,0	22,0
	Thermal conductivity	W/m °C	36	36
	Resistivity	nΩm, 20°C		
	Machinability		Very good	Very good
<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	CC762S-GS	CC762S-GC/GZ
European standard		EN 1982	CC762S-GS	CC762S-GC/GZ
US standard		UNS	C 86300	C 86300
German standard (old)		DIN	1709, G-CuZn25Al5	1705, GZ/GC-CuZn25Al5