COPPER ALLOY
JM 7

CuAl10Fe5Ni5-C

ÖREBRO - SWEDEN

Edition 8

Density 7,6

COMPOSITION

	Composition %								
	Cu	**Al**	**Fe**	**Ni**	**Mn**	**Pb**	**Si**	**Sn**	**Zn**
Nom	**80**	**10**	**5**	**5**					
Min	**Bal**	8,8 8,5*	3,5 3,5*	4,0 4,0*					
Max	**Bal**	10,5 11,0*	5,5 4,5*	6,0 6,0*	2,5	0,05	0,1	0,2	0,5

* JM7-20

MECHANICAL PROPERTIES

			Sandcast **JM7-03**	**Centrifugally- & continuously cast** **JM7-15**	**Extruded Rolled Forged** **JM7-20***
Rp0,2	Proof strength	N/mm^2	>=250	>=260	>=270
Rm	Tensile strenght	N/mm^2	>=540	>=590	>=630
A5	Elongation	%	>=10	>=10	>=10
HB	Hardness	10/1000	>=140	>=150	>=170
E	Young's modulus	N/mm^2	110 000	110 000	110 000
	Coeff. of thermal expansion	$X10^{-6}$,0-100°C	16,5	16,5	16,5
	Thermal conductivity	W/m °C	65	65	65
	Resistivity	nΩm,20°C	190	190	190
	Machinability		Good	Good	Good

*) JM7-20 is Johnson Metall's designation of material according to any of the standards shown below or equivalent standard.

Values given refer to separately cast test specimen to SIS 112152, or specimen cut from -15 castings or -20 material respectively with a wall thickness corresponding to the test specimen diameter.

Nearest equivalent standard				
Swedish standard	SS-EN 1982	CC333G-GS	CC333G-GC/GZ	
European standard	EN 1982	CC333G-GS	CC333G-GC/GZ	
US standard	UNS	C 95500	C 95500	C 63000
British standard (old)	BS	1400 AB2	1400 AB2	2872/2874, CA104
German standard (old)	DIN	1714, G-CuAl10Ni	1714, GZ/GC-CuAl10Ni	17665, CuAl10Ni