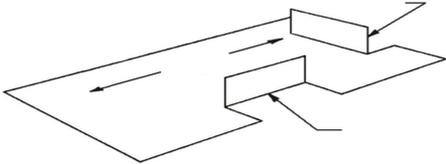


## SM330 (C26800)

CuZn33

### Alloy characteristics

SM330 is a full alpha brass with good workability and good deep drawing properties. The alloy has a combination between good strength and good cold forming properties.

Mechanical properties	Temper condition								
	M20	H01	H02	H03	H04	H06	H08	H10	
Tensile strength in N/mm <sup>2</sup>	275-350	340-405	380-450	420-500	470-540	545-615	590-655	620-685	
0,2% yield strength in N/mm <sup>2</sup>	<160	>240	>360	>390	>440	>520	>580	>600	
Vickers hardness HV (ref. val)	55-90	80 - 116	100 - 136	130 - 160	145 - 170	168 - 186	180 - 200	185 - 210	
Elongation A <sub>L50%</sub>	> 45	> 30	> 17	> 14	> 12	> 8	>2	-	
<p>Bending metals is one of the most common practices in metal processing worldwide. It is a process by which metal can be deformed when applying force to the subject, which causes it to bend at an angle and form the anticipated shape, which often results in it being in a 'V' or a 'U' shape.</p> 									
		90°	180°	90°	180°	90°	180°	90°	180°
0.10 ≤ t ≤ 0.25mm	Transverse	0.0 x t	0.0 x t	0.0 x t	0.0 x t	0.0 x t	0.5 x t	2,0 x t	-
	Parallel	0.0 x t	0.0 x t	0.0 x t	0.0 x t	0.0 x t	1,0 x t	5,0 x t	-
0.25 < t ≤ 0.5mm	Transverse	0.0 x t	0.0 x t	0.0 x t	0.0 x t	0.0 x t	1,0 x t	2,0 x t	-
	Parallel	0.0 x t	0.0 x t	0.0 x t	0.0 x t	0.5 x t	2,0 x t	6,0 x t	-

### Physical properties (Typical values in annealed temper at 20 °C)

Thermal expansion coefficient 20 ... 300 °C	19.6	10 <sup>-6</sup> /K
Specific heat capacity	0.377	J/(g·K)
Density	8.5	g/cm <sup>3</sup>
Thermal conductivity	124	W/(m·K)
Thermal coefficient of electrical resistance (0 ... 100 °C)	1.5	10 <sup>-3</sup> /K
Modulus of elasticity (1 GPa = 1 kN/mm <sup>2</sup> ) cold formed	115 max.	GPa
Electrical conductivity (IACS)	28	%

### Material designation

DIN EN	CW505L
UNS	C26000

Chemical composition	
Cu	Rest %
Pb	<0.05 %
Fe	<0.05 %
Zn	64 – 68.5 %
Other	≤ 0.3 %

*This information was given with the best knowledge, but cannot guarantee any characteristics we describe listed above. The contract terms of Sofia Med agreed with any individual customer and our general conditions of sales describe the liability of these conditions.  
In any case do we reserve the right by technical development or any other reason to modify this sheet according to our needs. This data sheet is part of a technical modification service done case by case.*