

SM330 (C26000)

CuZn30

Alloy characteristics

SM330 is a superior brass alloy with excellent properties for brass. Its characteristics are: good workability, good ability for drawing, here we have the ideal combination between good strength and excellent cold forming properties. This alloy is the most popular for deep drawing applications of all various.

SM330 is the main alloy from the brasses in the automotive industry in Europe and USA. There are significant deep drawing applications like in jewelry industry. Even for electrical and fasteners applications it is used very often. It is in compliance to the requirements of the OEKO-TEX Standard 100 in terms of the PB and Cd.

Mechanical properties	Temper condition								
	M20 HV55-90	H01 HV90-125	H02 HV120-150	H03 HV100-140	H04 HV115-150	H06 HV130-170	H08 HV150-190	H10 HV155-195	
Tensile strength in N/mm ²	285-350	340-405	395-460	440-510	490-560	545-615	625-690	655-715	
0,2% yield strength in N/mm ²	<160	>240	>360	>390	>440	>520	>590	>610	
Vickers hardness HV (ref.value)	55-90	190-125	120-150	130-160	150-180	170-200	190-220	200-230	
Elongation A _{L50%}	> 45	> 30	> 17	> 14	> 12	> 8	>2	-	
Bendability									
0.10 ≤ s ≤ 0.25mm	Transverse	0 x t	0 x t	0 x t	0 x t	0 x t	0.5 x t	2 x t	-
	Parallel	0 x t	0 x t	0 x t	0 x t	0 x t	1 x t	5 x t	-
0.25 < s ≤ 0.5mm	Transverse	0 x t	0 x t	0 x t	0 x t	0 x t	1 x t	2 x t	-
	Parallel	0 x t	0 x t	0 x t	0 x t	0.5 x t	2 x t	6 x t	-

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

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

Material designation

DIN EN	CW505L
UNS	C26000

Chemical composition

Cu	Rest %
Sn	<0.05 %
Zn	30 %
Other	≤ 0.375 %

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