

Alloy Designation	
EN	CuZn37 / CW508L
DIN	CuZn37 / 2.0321 DIN EN 1652
UNS	C27200 ASTM B36
JIS	C2720

Chemical Composition		
Cu	62.0 - 65.0	%
Zn	Remainder	

Characteristics
C27200 is a widely used brass—in Europe—offering an economical balance of moderate strength, adequate electrical conductivity and excellent cold formability. The high zinc content makes it cost-effective and improves strength, but reduces ductility and temperature stability; welding requires care and heavy cold work can increase susceptibility to stress-corrosion cracking in ammonia-containing environments (which can often be mitigated by stress-relief annealing). Brazing and soldering are straightforward.

Main Applications
Springs and Connectors clips & contacts
Electrical engineering components
Deep drawn parts radiator cores & tanks
Metal goods hose couplings

Physical Properties (Reference values at room temperature)		
Density	g/cm ³	8.45
Electrical conductivity	IACS%(20°C)*	24
Modulus of elasticity	KN/mm ²	105
Coefficient of thermal expansion	10 ⁻⁶ /K	20.2
Thermal conductivity	W/(m*K)	120

*value for the lowest temper class

Mechanical Properties							
TEMPER		Tensile Strength Mpa	Yield Strength Mpa	Elongation %	Hardness HV	Bending Test (90°) GW BW	
R300	M20	285 - 370	max. 180	min. 38	55 - 105	0	0
R350	H01	340 - 440	min. 170	min. 19	95 - 125	0	0
R410	H02/03	410 - 505	min. 300	min. 8	120 - 155	0	0
R480	H04	480 - 560	min. 430	min. 3	150 - 180	0	0.5
R550	H06	550 - 640	min. 500	-	170 - 200	0.5	1
R630		min. 630	min. 580	-	min. 190	1	2

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