Estd. 1935

CuZn 30

ALLOY NAME

AMW-25	IS/ISO	DIN CEN/TS 13388	UNS	JIS	KMW
CuZn30	CuZn30	CW505L	C26000	C2600	CuZn30

Chemical Composition	(% By Weight)
Cu	68.5 -71.5 %
Pb	
Fe	¡Ü 0.05 %
Zn	Reminder %
Total Impurity	0.15 %

Main Applications	
Electrical	Terminal Connectors, Flashlight Shells, Lamp Fixtures, Reflectors, Shells
Consumer	Snaps, Chain Links, Watch Parts, Costume Jewellery, Buttons
Building Hardware	Locks, Push Plates, Finish Hardware, Door Knobs.

Physical Properties Typical values in annealed temper at 20 Â°C

Density	8.53	g/cm3
Thermal expansion coefficient -191 .. 16 / 0 .. 300°C	9.0 / 19.7	10-6/K / 10-6/K
Specific heat capacity	0.377	J/(g•K)
Thermal conductivity	126	W/(m•K)
Electrical conductivity (1 MS/m = 1 m/(O mmÂ²)	¡Ý 16	MS/m
Electrical conductivity (IACS)	28	%
Thermal coefficient of electrical resistance (0 .. 200 C)	1.5	10-3/K
Modulus of elasticity (1 GPa = 1 kN/mmÂ²) cold formed	99....115 / 115	GPa / GPa

Mechanical Properties (EN 1652)

Temper	Tensile Strength Rm MPa (N/mm2)	Yield Strength Rp0.2 MPa (N/mm2)	Elongation Minimum A50mm %	Hardness HV
O (Soft)	280 Min	< 160	50 Min	80 Max
HA (Quater Hard)	325 Min	¡Ý 170	35 Min	75 Min
HB (Half Hard)	325 Min	¡Ý 200	20 Min	100 Min
HD (Hard)	415 Min	¡Ý 260	5 Min	125 Min
HE (Extra Hard)	522 Min	¡Ý 400		165 Min

Fabrication Properties	
Cold formability	Excellent
Hot formability	Fair
Soldering	Excellent
Brazing	Excellent
Oxyacetylene welding	Good
Gas shielded arc welding	Good
Resistance welding	Fair
Machinability	Fair

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