EGM GROUP

CuZn37

TECHNICAL SHEET

ROLLED PRODUCTS

CuZn37

TECHNICAL SHEET

INTERNATIONAL REFERENCES

EGM	EN	DIC CEN	ASTM(CDA)	AFNOR	BS	JIS
OT63	CuZn37	CW508L	C27200	-	CZ108	C2720

MAIN CHARACTERISTICS

CuZn37 is the major brass alloy for the cold forming process. Even though brasses with lower Zinc content have better cold forming properties, CuZn37 is the most used alloy. Reasons for this are on the one hand economical due to lower price of Zinc compared to Copper, on the other hand the forming properties of this alloy meet the demand of many applications.

The alloy has a good resistance to water, water vapour, different saline solutions, many organic liquids . Land, sea and industrial atmosphere. Not particularly resistant under certain conditions to water with high chlorine-content and low carbonate-hardness. A form of corrosion called "dezincification" can occur.

CHEMICAL COMPOSITION

Cu [%]	Al [%]	Fe [%]	Ni [%]	P [%]	Pb [%]	Sn [%]	Zn [%]	Σ other [%]
62,0 - 64,0	≤ 0,05	≤ 0,1	≤ 0,3	-	≤ 0,1	≤ 0,1	Rest	≤ 0,1

FABRICATION PROPERTIES

Cold Forming Properties	★★★★	Hot Tinning Properties	★★★★
Hot Forming Properties	★★★★	Soft Soldering	★★★☆
Electroplating Properties	★★★★	Brazing	★★★★

COMPLIANCE

2000/53/CE ELV	✓	2017/2102/CE	✓
2011/65/CE ROHS	✓	2018/741/CE	✓
2015/863/CE	✓	2002/96/CE RAEE	✓

Rev. 01/21

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PHYSICAL PROPERTIES

Density	8.44g/cm3
Electrical Conducivity	15MS/m
Electrical Conducivity	26IACS %
Thermal Conducivity	120W/mK

MECHANICAL PROPERTIES

Temper	Tensile Strength Rm [N/mm2]	Yeld Strength Rp0.2 [N/mm2]	Elongation A50 [%]	Hardness HV10	Grain size [mm]
R300	300-370	≤ 180	≥ 38	-	-
H055	-	-	-	55-95	-
G010	-	-	-	≤ 120	≤ 0.015
G020	-	-	-	≤ 95	0.015-0,030
G030	-	-	-	≤ 90	0,020-0,040
G050	-	-	-	≤ 80	0,035-0,070
R350	350-440	≥ 170	≥ 19	-	-
H095	-	-	-	95-125	-
R410	410-490	≥ 300	≥ 8	-	-
H120	-	-	-	120-155	-
R480	480-560	≥ 430	≥ 3	-	-
H150	-	-	-	150-180	-
R550	≥ 550	≥ 500	≥ 2	-	-
H170	-	-	-	≥ 170	-
R630	≥ 630	≥ 600	-	-	-
H190	-	-	-	≥ 190	-

Please note: the above values are to be considered in compliance with UNI-EN 1652.

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TYPES AND FORMAT AVAILABILITY

	Thickness	Widht	Internal diameter	External diameter
Horizontal axis	da 0,2 a 3,00 mm	da 340 a 1050 mm	300 / 400 / 500 mm	<1500 mm
Vertical axis	da 0,2 a 3,00 mm	da 4 a 500 mm	100 / 140 /300 / 400 / 500 mm	<1500 mm
Drums	da 0,2 a 2,00 mm	da 4 a 60 mm	300 / 400 / 500 mm	<1000 mm
Multistrips	da 0,2 a 1,5 mm	da 4 a 60 mm	300 / 400 / 500 mm	<1500 mm

Please note: The dimensions indicated are to be considered purely indicative. Specific requirements regarding width, thickness, internal and / or external diameter, must be evaluated and agreed upon when ordering.

OTHER SERVICES

Our Company offers a wide range of additional services, helping to satisfy the most varied needs. Surface treatments, like galvanic tinning, silvering, gold plating, as well selective plating, in order to improve the electrical and surface behavior in critical component conditions.

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