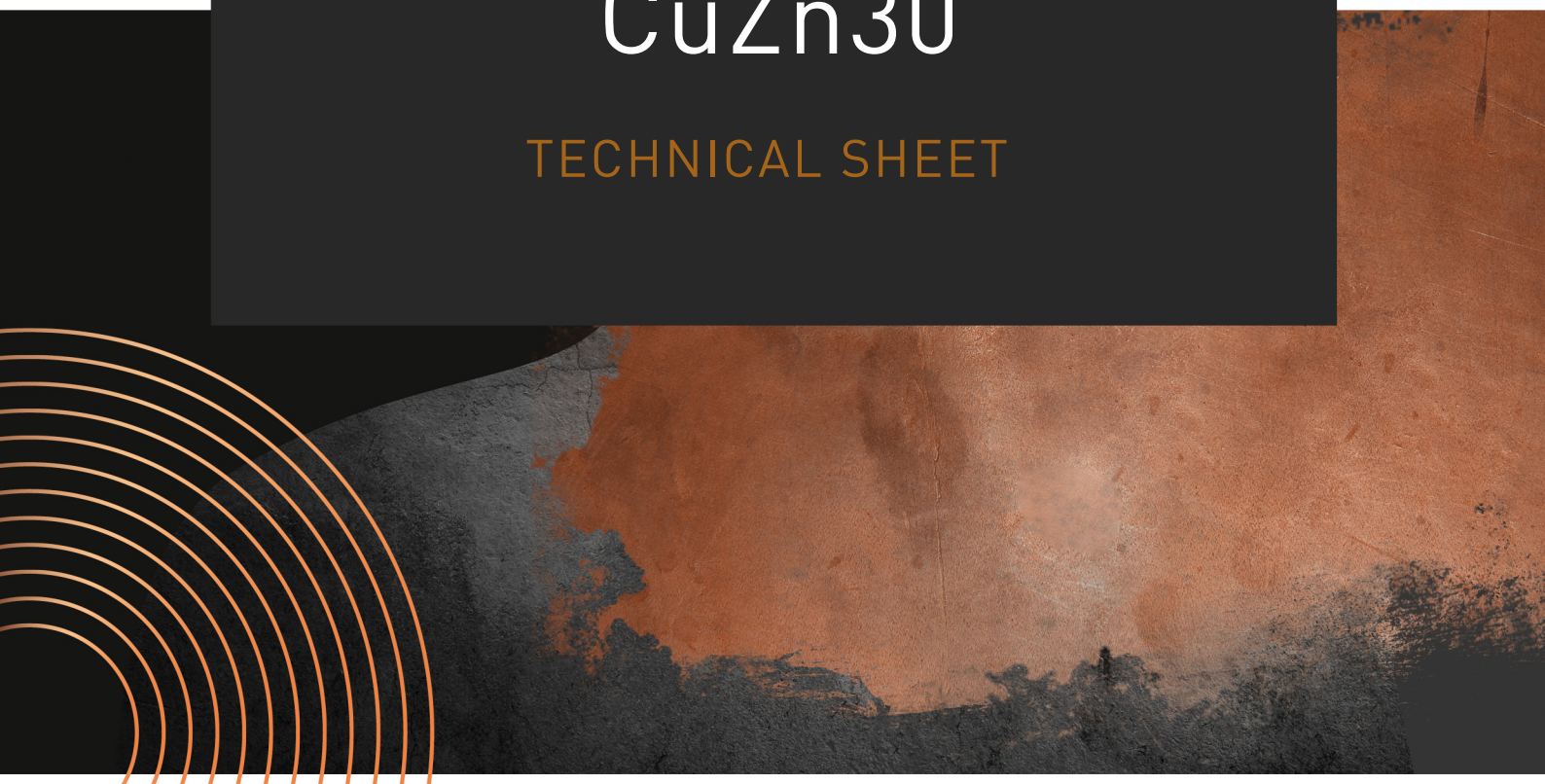
EGM GROUP

CuZn30

TECHNICAL SHEET



ROLLED PRODUCTS

CuZn30

TECHNICAL SHEET

INTERNATIONAL REFERENCES

EGM	EN	DIC CEN	ASTM(CDA)	AFNOR	BS	JIS
OT70	CuZn30	CW505L	C26000	CuZn30	CZ106	C2600

MAIN CHARACTERISTICS

This alloy has a good resistance to water, water vapour, different saline solutions, many organic liquids. Industrial, maritime and country air. CuZn30 tends to stress corrosion cracking, when in contact with e.g. hydrous ammonia, ammoniac salt or amine and others. Trough a heat-treatment of semi-finished or finished products the risk of stress corrosion can be reduced. Not particularly resistant to aAcids, hydrous sulphur components.

CuZn30, as well as CuZn28 and CuZn33 is combining excellent cold forming properties with good mechanical strength. The alloy has good hot forming properties and excellent soldering and brazing properties. Due to the outstanding deep drawing properties CuZn30 and the other two mentioned alloys are called “deep-draw” or “cartridge” brass.

CHEMICAL COMPOSITION

Cu [%]	Al [%]	Fe [%]	Ni [%]	P [%]	Pb [%]	Sn [%]	Zn [%]	Σ other [%]
69,0 - 71,0	≤ 0,02	≤ 0,05	≤ 0,3	-	≤ 0,05	≤ 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	✓

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PHYSICAL PROPERTIES

Density	8.55g/cm3
Electrical Conducivity	16MS/m
Electrical Conducivity	28IACS %
Thermal Conducivity	126W/mK

MECHANICAL PROPERTIES

Temper	Tensile Strength Rm [N/mm2]	Yeld Strength Rp0.2 [N/mm2]	Elongation A50 [%]	Hardness HV10	Grain size [mm]
R270	270-350	≤ 160	≥ 40	-	-
H055	-	-	-	55-90	-
G010	-	-	-	≤ 120	≤ 0.015
G020	-	-	-	≤ 95	0.015-0,030
G030	-	-	-	≤ 90	0,020-0,040
G050	-	-	-	≤ 80	0,035-0,070
G075	-	-	-	≤ 70	0,050-0,100
R350	350-430	≥ 170	≥ 21	-	-
H095	-	-	-	95-125	-
R410	410-490	≥ 260	≥ 9	-	-
H120	-	-	-	120-155	-
R480	480-560	≥ 430	≥ 4	-	-
H150	-	-	-	150-190	-
R550	550-640	≥ 480	≥ 2	-	-
H170	-	-	-	170-210	-
R630	≥ 630	≥ 560	-	-	-
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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