

Copper Plates



Informatii produs:

Copper plates are semi-finished products obtained by cold rolling in the size range 8 - 35 mm and hot rolling in the size range 8 - 240 mm, with excellent cold forming, electroplating, sealing, solder alloying, electric arc welding and less good in terms of resistance and laser welding or machinability.

Good resistance to corrosion in industrial atmosphere, pure water vapour and industrial waters and less good to sea water or oxidizing acids.

COMMON AREAS OF USE FOR COPPER PLATES:

- components for the electrical and electrotechnical industry,
- telecommunications,
- solar energy technology,
- household products and decorations,
- bathroom objects and accessories.

EXECUTION STANDARD EN 13599

Chemical composition

Material Symbols		DENSITY, G/CM ³	ELEMENT	COMPOSITION IN % (MASS FRACTION)							OTHER ELEMENTS	
				Cu	Ag	Bi	O	P	Pb	TOTAL EXCLUSIVE		
ALLOY	Euronorm No.											
Cu-HCP	CW021A	8,94	min.	99,95	-	-	-	0,002	-	-	Ag, P	
			max.	-	-	0,0005	-	0,007	0,005	0,03		

Physical properties

ALLOY	Euronorm No.	DENSITY	ELECTRICAL CONDUCTIVITY		THERMAL CONDUCTIVITY	MODULUS OF ELASTICITY
		g/cm³	MS/m	%IACS	W/mK	kN/m²
Cu-HCP	CW021A	8,94	57	98	385	127

Mechanical properties

ALLOY	Euronorm No.	MATERIAL CONDITION	MECHANICAL RESISTANCE, N/MM ²		YIELD STRENGTH N/ MM ²		ELONGATION, %		HARDNESS HB	
			min	max	min	max	min		min	max
Cu-HCP	CW021A	R220 H045	220	260		140	33		45	65
		R240 H065	240	300	180		8		65	95
		R290 H090	290	360	250		4		90	110
		R360 H110	360	-	320		2		110	

Dimensional specification

*The specific weight is a theoretical weight and may differ from the actual weighed weight due to geometric tolerances set out in EN standards.

THICKNESS, MM	WIDTH, MM	LENGTH, MM	DENSITY, G/ CM ³	PLATE WEIGHT, KG
10	1 020	3 020	8.94	275.39
12	1 020	3 020	8.94	330.47
15	1 020	3 020	8.94	413.08

THICKNESS, MM WIDTH, MM LENGTH, MM DENSITY, G/ CM³ PLATE WEIGHT, KG

20	1 020	3 020	8.94	550.78
25	1 020	3 020	8.94	688.47
30	1 020	3 020	8.94	826.16
35	1 020	3 020	8.94	963.86
40	1 020	3 020	8.94	1101.55
45	1 020	3 020	8.94	1239.24
50	1 020	3 020	8.94	1376.94
60	1 020	3 020	8.94	1652.33
70	1 020	2 020	8.94	1289.4
80	1 020	2 020	8.94	1473.6
100	1 020	2 020	8.94	1842
130	1 020	1 020	8.94	1209.15
150	1 020	1 020	8.94	1395.18

Industry Type: MACHINING, ELECTRICAL AND AUTOMATION INDUSTRY,
Category: Copper, PLATES,

URL: <https://color-metal.ro/en/copper-plates>