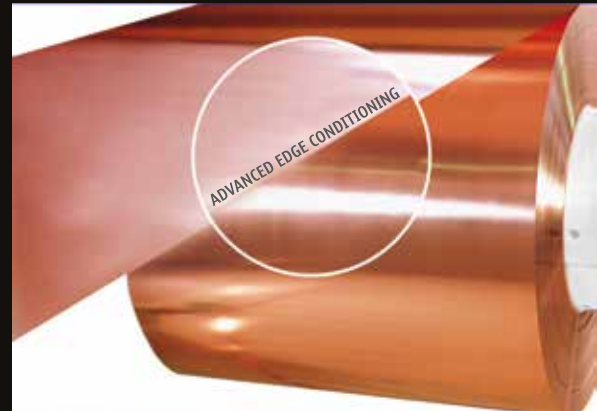


# ***SOFIA MED***

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## TRANSFORMER STRIPS



The transformer copper strips, or also called foils, have been one of our core products for many years. Sofia Med has been producing ETP copper strip for distribution transformers in accordance with all international standards, and even as per individual customer specifications.

We ensure consistent quality of our products by steadily investing in the latest technologies and great engineers. We are proud to be one of the most competitive European manufacturers at the global market!

SOFIA MED is a producer of a wide range of rolled and extruded copper and copper alloy products such as sheets, strips, plates, circles, disks, bus bars, rods, profiles, wire that are used in a wide variety of applications.

The company is part of the HALCOR group, which is also involved in the production of metal products, such as copper and brass tubes, power and telecommunication wires.

SOFIA MED is situated in Sofia, Bulgaria, on a 250,000 m<sup>2</sup> area and has three production units: Foundry, Rolling and Extrusion mills.

With almost 80 years of manufacturing experience and significant investments, SOFIA MED has evolved into a competitive modern European company with customers internationally, supported through the worldwide distribution channel network of HALCOR.

SOFIA MED operates under strict quality, environmental, as well as health and safety management systems, in compliance with ISO 9001, ISO 14001 and OHSAS 18001 standards.

The wide product range of SOFIA MED meets the requirements of the Unified European standards (EN), as well as BS, DIN, ASTM, JIS standards, or any other specific customer request.



With our transformer strips (foils) you get:

- clean surface, oil-free
- lab certified mechanical and chemical properties
- rounded burr-free edges from 0.30mm, and <0.30 minimal-burr precision slit edges.
- surface inspection system of both sides of the strip
- high dimensional accuracy, exceeding the standards
- high electrical conductivity >100% IACS (in comparison to Al - it is 40% more)
- surface protection against oxidation
- pure Grade A copper material
- paper interleaving
- safe and secure packing for truck or container loading, with additional protection against oxydiation

# GENERAL PROPERTIES

## Dimensions:

Thickness in mm	Width in mm	Edge shape
0,10 - 0,19	10 - 1000	precision cut
0,20 - 0,29	10 - 1250	precision cut
0,30 - 0,39	200 - 1250	rounded - burr free
0,40 - 2,50	200 - 1250	rounded - burr free

*Sofia Med produces also a wide range of bare and plated copper bus bars.*

## Alloys according to EN 1652 standard

SM	Symbol	Number	Cu{%-min)	P (%-Range)	O (%-max)
SM1100	Cu-ETP	CW004A	99.90	-	0,040
SM1030	Cu-PHC	CW020A	99.95	0,001 - 0,006	-
SM1031	Cu-HCP	CW021A	99.95	0,002 - 0,007	-
SM1201	Cu-DLP	CW023A	99.90	0,005 - 0,014	-
SM1220	Cu-DHP	CW024A	99.90	0,015 - 0,040	-

## Physical Properties (at Ambient Temperature of 20 °C)

	CU
Density (gr/cm <sup>3</sup> )	8,93
Melting Point (L/S* íπ °C)	1.083

\* L/S = Liquid/Solid

## Typical Mechanical Properties of Cu

Alloy	Temper	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)	Hardness (HV)
Cu	R200	200 - 250	100 max	-	-
	R220	220 - 260	140 max	33	-



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