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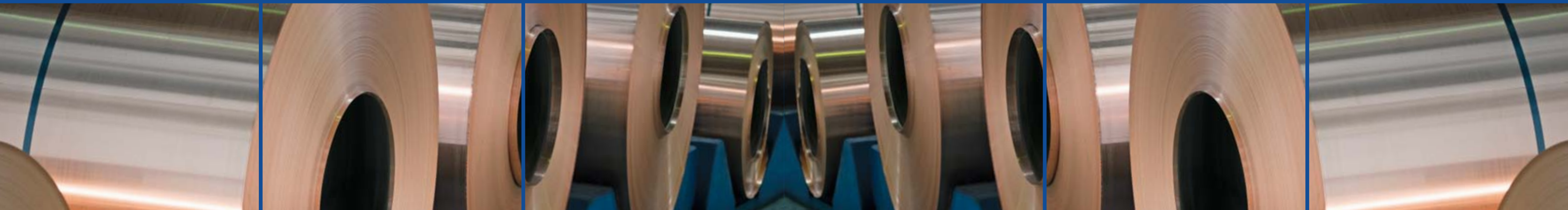
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TRANSFORMER STRIPS

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, bare and plated copper bus bars, rods, profiles, components, fabricated parts and wire that are used in a wide variety of building and industrial applications.

Sofia Med is part of the ElvalHalcor Hellenic Copper and Aluminium industry S.A., a leading global manufacturer of aluminium and copper rolled and extrusion products.

Sofia Med is situated in Sofia, Bulgaria, on a 250 000 m² area and has three production units: Foundry, Rolling and Extrusion.

With more than 80 years of manufacturing experience and significant investments, **Sofia Med** has evolved into a competitive modern European company with customers globally.

Sofia Med operates under strict quality, environmental, as well as health and safety management systems, in compliance with ISO 9001:2015, IATF 16949:2016, ISO 14001:2015, OHSAS 18001:2017, ISO 50001:2011, as well as follows the guidelines of ISO 26000:2010 for social responsibility.

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 0.30 mm, 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 Width Edge shape	0.10 mm - 0.19 mm* 10 mm - 1000 mm* precision cut	0.20 mm - 0.29 mm* 10 mm - 1250 mm precision cut
	0.30 mm - 0.39 mm* 200 mm - 1250 mm deburred edges - burr free	0.40 mm - 2,50 mm* 200 mm - 1250 mm round edges (burr free)

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



Thickness	Width				
	200	500	600	1000	1250
0,25	Deburred edges			Slitted edges	
0,40	Rounded edges			Deburred edges	
0,50 - 1,7	Rounded edges				
2,50	Slitted edges		Rounded edges		
Width dimensions from 20 to 200 - slitted.					

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	-

PHYSICAL PROPERTIES (at Ambient Temperature of 20°C)

CU	
Density (gr/cm³)	8,93
Melting Point (L/S* în °C)	1083

*L/S = Liquid/Solid

TYPICAL MECHANICAL PROPERTIES

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