

**Innovation, quality** and **safety** at the service of selected customers. **Flexibility and transparency** at every stage of product development, punctuality, **reliability** and **maximum customisation** of all the solutions.

Your partner of excellence for the development and delivery of technologically advanced, high value-added solutions



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**FUSES**  
Silver, Copper  
Bimetals silver-copper





## Cutting-Edge Solutions for the Fuse Market

Thanks to our long-standing expertise in processing thin metals such as silver and copper, **Pietro Galliani** leads the market in fuse components.

Our silver tapes, copper sheets, and increasingly popular Silver-Copper bimetal are now utilized by major fuse manufacturers worldwide. We develop customized products, even with low minimum orders, characterized by maximum reliability and precision, essential qualities in this market.



## PRODUCTS

### Silver Tapes:

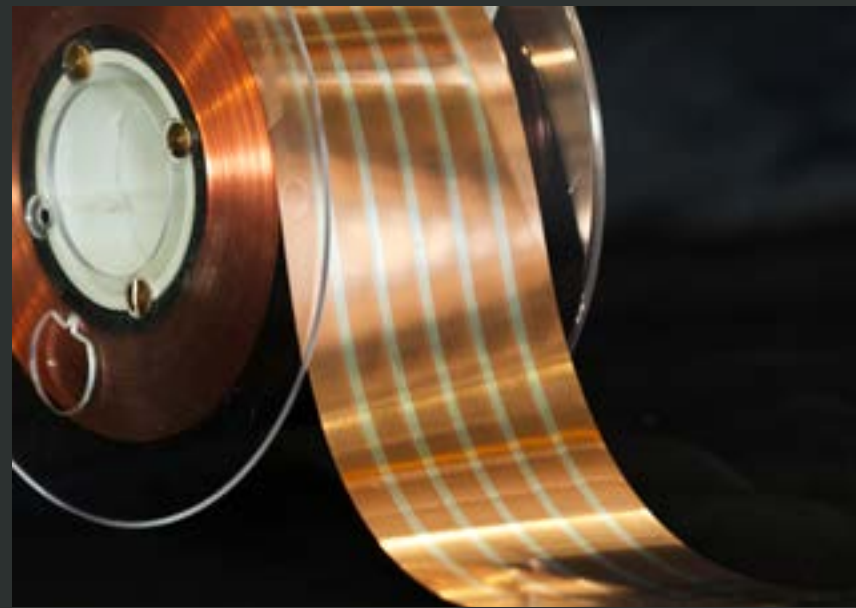
High-quality products to ensure maximum precision during operation.

### Copper Sheets and Copper Alloys:

Various types of alloys and formats available.

### Bimetals:

The possibility to combine copper and silver to achieve the best performance with the maximum cost-effectiveness ratio.



## SERVICE

We accept orders for even the smallest production quantities and guarantee our customers fast and reliable delivery times. We offer **customised solutions**, designed and developed to express the proper characteristics and suit unique production cycles.

## APPLICATIONS

Low/medium/high voltage fuses

Special fuses for photovoltaics

Automotive Fuses

High precision fuses

Fuses with fast and ultra-rapid intervention

## FUSES

Silver, Copper, Bimetals silver-copper



	Silver	Copper	Copper Alloys	Bimetal
<b>MATERIAL</b>	Silver with purity up to 99.99%; with impurity control in PPB	Various types of copper available according to requirements	4 types of Brass (CuZn), 2 types of Bronze (CuSn), 2 types of Nickel Silver (CuNiZn), and other special alloys with high thermal resistance	Possible combinations of copper and brass in combination with silver or related alloys (possibility to insert from 1 to 8 silver tracks)
<b>THICKNESS</b>	Thicknesses ranging from a minimum of 8 microns; thickness tolerance up to +/- 3%; minimum width 1mm.	Thicknesses ranging from a minimum of 8 µm; standard thickness tolerance +/- 10%, reducible to +/- 5% in special products. Width 6-350mm	Thicknesses ranging from a minimum of 8 µm; standard thickness tolerance +/- 10%, reducible to +/- 5% in special products. Width 6-350mm	Wide selection of thicknesses and widths available based on customer needs. High geometric precision
<b>FORMATS</b>	Plastic flanged coils, customizable formats based on product dimensions. Packaging made with vacuum-laminated barrier	Packaging made with vacuum-laminated barrier; upon request, protection against oxidizing agents, barrier bag, and other special packaging	Packaging made with vacuum-laminated barrier; upon request, protection against oxidizing agents, barrier bag, and other special packaging	Plastic flanged coils, customizable formats based on product dimensions. Packaging made with vacuum-laminated barrier
<b>MECHANICAL PROPERTIES</b>	Hard material with HV > 75 and annealed material with HV < 50. Mechanical properties with narrow tolerance ranges for special applications	Tensile strength > 390 MPa in some cases, with mechanical resistance guaranteed up to 200°C	Tensile strength > 390 MPa in some cases, with mechanical resistance guaranteed up to 200°C	Annealed Ag 30-65 HV Raw Ag > 65 HV Annealed Cu 40-65 HV Raw Cu > 80 HV Annealed OT70/OT85 65-95 HV Raw OT70/OT85 > 100 HV
<b>SURFACE</b>	Specular surface, with very low surface roughness (Ra < 0.1µm); removal of surface impurities through specific processes; availability of scratch-resistant protective films	Very low surface roughness (Ra < 0.1µm); coatings, tinning, and silver plating available upon request	Very low surface roughness (Ra < 0.1µm); coatings, tinning, and silver plating available upon request	Very low surface roughness (Ra < 0.1µm); removal of surface impurities through specific processes