

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.

PG | **PIETRO GALLIANI**
METAL INNOVATION, SINCE 1885

Pietro Galliani S.p.A.
Registered office

Via Molino Malpasso 65 - 40038
Vergato (BO)
+39 051 910061

info@pietrogalliani.com

www.pietrogalliani.com

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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:

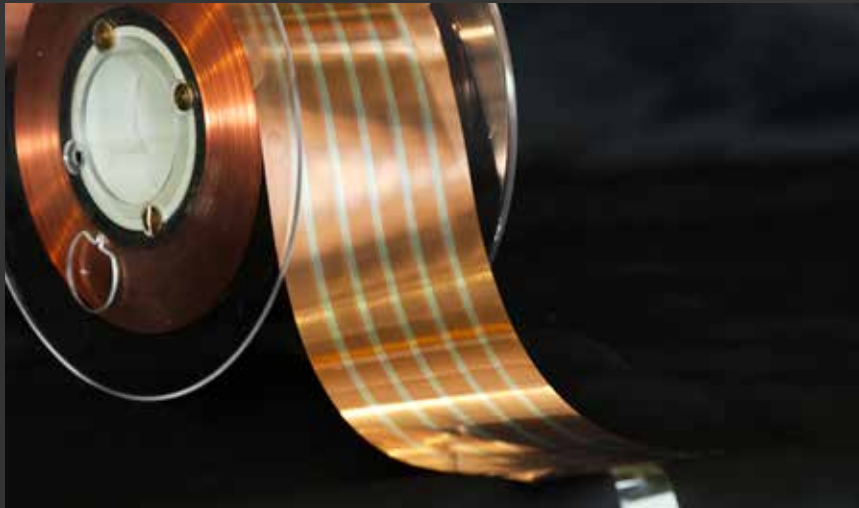
High-quality products to ensure maximum precision during operation.

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
 MATERIAL	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)
 THICKNESS	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
 FORMATS	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
 MECHANICAL PROPERTIES	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
 SURFACE	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